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BULLETIN

OF THE

AGRICULTURAL AND MECHANICAL  
COLLEGE OF TEXAS

Third Series, Vol. 6.

NOVEMBER 1, 1920.

No. 12

ANNUAL REPORT FOR THE FISCAL  
YEAR 1919-20



Published monthly by the Agricultural and Mechanical College of Texas.

Entered as second-class matter August 7, 1913, at the Postoffice at College Station,  
Texas, under the Act of August 24, 1912.



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## BOARD OF DIRECTORS.

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L. J. HART, President.  
W. A. MILLER, Vice-President.

---

S. G. BAILEY, Secretary.

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### TERMS EXPIRE 1921.

|                     |               |
|---------------------|---------------|
| H. A. BREIHAN ..... | Bartlett.     |
| J. R. KUBENA .....  | Fayetteville. |
| W. A. MILLER .....  | Amarillo.     |

### TERMS EXPIRE 1925.

|                       |          |
|-----------------------|----------|
| F. M. LAW .....       | Houston. |
| T. N. JONES .....     | Tyler.   |
| JOHN T. DICKSON ..... | Paris.   |

### TERMS EXPIRE 1923.

|                     |              |
|---------------------|--------------|
| L. J. HART .....    | San Antonio. |
| R. L. YOUNG .....   | Houston.     |
| W. S. ROWLAND ..... | Temple.      |

## ANNUAL REPORT FOR THE FISCAL YEAR 1919-1920.\*

The scholastic year 1919-20 has been one of the most satisfactory in the history of the college. Conditions during the year have been more nearly normal than at any time since 1914. During the earlier years of the European conflict the student attendance continued to increase, but as the war was prolonged the college began to experience the distressing influences that war always brings upon a country. When the United States entered the war on April 7, 1917, this institution, like all other educational institutions, experienced the gradual disintegration in its faculty and student body. It was inevitable that a college that emphasizes military training should bear a large part of the burden connected with war plans and policies. Within two weeks after the declaration of war students began to leave the college for training camps and the process of disorganization began. Rapid readjustment of educational policies to meet the technical requirements of the war followed. This readjustment culminated in the establishment of the Students' Army Training Corps, and a complete change in the military policy of this college was brought about. While the signing of the armistice dissolved the S. A. T. C. it was impossible for the college to make the readjustment back to a normal basis before the end of the scholastic year of 1919-20.

But with the opening of the college last September, the institution entered upon a new era. Many of the former students of the institution whose course of instruction had been interrupted by the war returned to resume their studies. These men had made unusual sacrifices for their country, including quite a delay in completing their college courses. But they were determined not to be deprived of a college education. They brought back to the college unusual earnestness of purpose and a definite sense of social responsibility. These men have made a large contribution to the success of this year's work. Many of them have been officers of the cadet corps, and as such they have performed their tasks with unusual fidelity. Others who were exempted from further military training have been identified with the civilian group of students, and as such they have exerted a wholesome influence upon their associates.

Attention should be called also to the general attitude of the entire student body this year. The freshman class, numbering 510 with 200 first-year two-year men, that entered school last September, came with the best preparation of any freshman class in the history of the college. The exacting requirement for admission to the college has been responsible for this result. The entire student body has seemed to feel its responsibility to the institution. It has been this combined effort that has contributed so largely to making this the most successful year the college has had.

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\*Approved by the Board of Directors at a meeting held June 23, 1920.

## ATTENDANCE.

The following summary shows the distribution of students by courses and by years, and the total attendance for the entire year, including the summer session of 1919; it also shows the geographic distribution of students and the names of counties having ten or more students attending this institution:

### SUMMARY OF ENROLLMENT.

#### TWO-YEAR COURSES:

|                 | Agr. | AgEd. | Sci. | VM | Ar. | ChE | CE  | EE  | IE | METE | Tot. |
|-----------------|------|-------|------|----|-----|-----|-----|-----|----|------|------|
| Graduate -----  | 7    | -     | -    | -  | -   | 1   | 1   | -   | -  | -    | 9    |
| Senior -----    | 40   | 2     | 2    | 4  | 1   | 6   | 14  | 14  | -  | 8    | 95   |
| Junior -----    | 62   | 4     | -    | 5  | 5   | 12  | 28  | 28  | -  | 15   | 161  |
| Sophomore ----- | 78   | 2     | -    | 2  | 4   | 48  | 59  | 63  | -  | 31   | 296  |
| Freshman -----  | 147  | 3     | -    | 4  | 13  | 41  | 91  | 136 | 3  | 68   | 510  |
| <hr/>           |      |       |      |    |     |     |     |     |    |      |      |
| Special -----   | 334  | 11    | 2    | 15 | 23  | 108 | 193 | 241 | 3  | 122  | 1071 |
|                 | 215  | 39    | -    | -  | 11  | 4   | 10  | 16  | -  | 11   | 312  |

#### TWO-YEAR COUREES:

|                      | C   | H  | M  | N  |     |
|----------------------|-----|----|----|----|-----|
| Second Year -----    | 35  | 2  | 7  | 9  | 53  |
| First Year -----     | 100 | 11 | 23 | 66 | 200 |
| Auto Mechanics ----- |     |    |    |    | 166 |

|  |      |
|--|------|
| Total Regular Session .....                          | 1802 |
| Summer Session, 1919: School of Cotton Class.ng..... | 129  |
| Summer Normal .....                                  | 67   |
| Rural Life School .....                              | 46   |
| College .....  | 93   |
| Auto Mechanics .....                                 | 97   |
| Farmers' Short Course .....                          | 489  |

921

Total.....2723  
Less names repeated..... 76

Net enrollment, 1919-20 .....2647

### GEOGRAPHIC DISTRIBUTION.

(Not Including Summer School).

|                            |    |                      |    |  |  |      |
|----------------------------|----|----------------------|----|--|--|------|
| Texas .....                |    |                      |    |  |  | 1678 |
| Other States:              |    |                      |    |  |  |      |
| Alabama .....              | 3  | Mississippi .....    | 7  |  |  |      |
| Arizona .....              | 3  | Nebraska .....       | 1  |  |  |      |
| Arkansas .....             | 24 | New Jersey .....     | 2  |  |  |      |
| California .....           | 1  | New Mexico .....     | 3  |  |  |      |
| District of Columbia ..... | 1  | New York .....       | 5  |  |  |      |
| Florida .....              | 1  | Ohio .....           | 1  |  |  |      |
| Georgia .....              | 1  | Oklahoma .....       | 15 |  |  |      |
| Kentucky .....             | 2  | Pennsylvania .....   | 3  |  |  |      |
| Louisiana .....            | 27 | South Carolina ..... | 1  |  |  |      |
| Maryland .....             | 1  | Tennessee .....      | 6  |  |  | 108  |



# Foreign Countries:

|        |   |
|--------|---|
| Brazil | 2 |
| Cuba   | 1 |
| Mexico | 8 |
| Peru   | 4 |
| Poland | 1 |

16

Total..... 1802

# Counties in Texas having ten or more students at this institution:

|           |    |             |    |
|-----------|----|-------------|----|
| Bastrop   | 14 | Houston     | 17 |
| Bell      | 20 | Hunt        | 14 |
| Bexar     | 72 | Jefferson   | 25 |
| Brazos    | 79 | Johnson     | 11 |
| Camp      | 11 | Kaufman     | 17 |
| Collin    | 15 | Lamar       | 12 |
| Colorado  | 12 | Lavaca      | 14 |
| Comanche  | 12 | Lee         | 13 |
| Cooke     | 17 | Limestone   | 14 |
| Dallas    | 73 | Matagorda   | 10 |
| Denton    | 16 | Medina      | 13 |
| Dewitt    | 21 | McLennan    | 44 |
| Ellis     | 21 | Milam       | 22 |
| Falls     | 24 | Nacogdoches | 10 |
| Fannin    | 13 | Navarro     | 18 |
| Fayette   | 16 | Nueces      | 17 |
| Galveston | 29 | Parker      | 11 |
| Gonzales  | 10 | Red River   | 11 |
| Grayson   | 25 | Robertson   | 22 |
| Grimes    | 11 | Rusk        | 12 |
| Guadalupe | 11 | Smith       | 14 |
| Harris    | 64 | Tarrant     | 56 |
| Harrison  | 18 | Taylor      | 13 |
| Hill      | 31 | Travis      | 12 |

The total attendance for the regular session is slightly more than fifty per cent. greater than that of any previous pre-war year. The attendance for the summer school has also shown a constant increase year after year. It is gratifying to observe the rapid growth of the college in recent years, as this is the best evidence that the college is supplying an actual demand in the educational field in Texas. We should never forget, however, that quality is more important than quantity. The authorities of the institution, therefore, have been deeply concerned at all times about raising the standards of instruction and increasing the quality of instruction with the view of turning out men of unusual proficiency in the several technical courses leading to graduation. It has been exceedingly difficult, due to war conditions and the rapid readjustment following the war, to maintain efficiency in instruction in the college. It should be frankly acknowledged that it has been impossible to raise the standards of teaching in many departments of instruction. But with funds to supplement available salaries that have been provided by the third called session of the thirty-sixth legislature, it is believed that it will be possible to improve the teaching standards and provide additional men in the departments that are now very much overcrowded, by reducing the number of students per instructor.

## RESIGNATIONS DURING THE YEAR.

An unusual number of changes in the college organization have taken place during the year. Due to the unusual demand for technically trained men in the industries and commerce, and the unusual salaries that have been offered, it has been impossible for the college to provide salaries to meet this competition. The following is the list of resignations since September 1, 1919:

H. L. Whitley, instructor in agricultural engineering, has resigned to enter commercial work.

Captain E. L. Franklin, assistant professor of military science and tactics in charge of the signal corps unit of the R. O. T. C., resigned from the army and left the college to enter business.

J. P. Buck, associate professor of agricultural education, resigned to accept the professorship of agricultural education in the University of Arkansas.

B. H. Faber, instructor in civil engineering, resigned to accept employment with the Texas Highway Commission.

A. W. Jones, assistant professor of biology, resigned to accept a similar position in another state.

F. M. Lyle, assistant professor of farm management resigned to accept commercial employment.

N. M. McGinnis, associate professor of Horticulture, resigned to enter business in Dallas.

F. A. R. Morgan, assistant professor of English, resigned to accept another teaching position in this state.

J. B. Humphreyville, instructor in drawing, E. F. Rathjen, instructor in Chemistry, John M. Lowe, associate professor of biology, J. B. Leake, instructor in drawing and R. L. Grissom, instructor in electrical engineering, have resigned to accept commercial employment.

Charles Firth, student advisor and general secretary of the Y. M. C. A., resigned to accept a teaching position in Colorado.

Frank E. Burkhalter, publicity secretary, resigned to accept the position of publicity director of the Baptist Seventy-Five Million Campaign.

R. A. Andree, professor of agricultural engineering, resigned to accept a similar position in Minnesota.

E. R. Bowersox, instructor in physics, resigned to accept a position in another state.

A. W. Reynolds, assistant professor of dairy husbandry, resigned to accept commercial work in dairying.

L. L. Click, who has been on leave of absence for two



years pursuing graduate work at the University of Michigan, resigned to accept an instructorship in English in the University of Texas.

R. L. Morrison, professor of highway engineering, resigned to engage in private highway engineering work in Alabama.

Ernest Langford, assistant professor in drawing, resigned to accept a teaching position elsewhere.

W. R. Hale and J. G. Garner, assistant professors in mathematics, resigned to enter commercial work.

G. D. Goldsmith and Reno E. McCauley, instructors in biology, resigned to enter northern universities for graduate studies.

Charles Decker and J. A. Peterson, instructors in mechanical engineering, have resigned to accept teaching positions elsewhere.

Harry M. Baldwin, assistant professor of agricultural engineering, I. J. Sheppard, associate professor of electrical engineering, Edgar F. Bates, instructor in physics, have resigned to accept teaching positions in other states.

E. C. Baker, assistant professor of mechanical engineering, has resigned and accepted a commercial position in Mississippi.

F. E. Spencer, associate professor of modern languages, has resigned to accept another teaching position.

Mrs. L. Wermelskirchen, assistant librarian, has resigned and joined her husband who holds a teaching position in another institution.

Robert E. Hicks, publicity secretary, resigned to accept a publicity position in Dallas.

T. A. Rouse, associate professor of animal husbandry, has resigned to accept a teaching position in another state.

J. C. Burns, head of the department of animal husbandry, has resigned to accept the secretaryship of the Short Horn Association of Texas.

R. F. Miller, professor of animal husbandry, has resigned to accept a similar position in the school of agriculture of the University of California.

J. W. Ridgway, professor of dairy husbandry, has resigned to accept the joint position of county agent of Cook county and secretary of the commercial club of Gainesville.

## APPOINTMENTS.

The following have been appointed to fill vacancies and new positions in the college since September 1, 1919:

R. E. Bosque, B. S., A. and M. College of Texas, formerly

instructor in Agricultural Engineering at this institution but resigned to accept teaching position elsewhere, was re-appointed as instructor in Agricultural Engineering.

James Johnson, A. B., B. Sc., Oskaloosa College, Oskaloosa, Iowa, formerly principal Rosebud High School, has been appointed as assistant professor in English.

Ike Ashburn, formerly Major in the National Army, has been appointed Commandant.

S. D. Snyder, B. S., Iowa State College, who taught two years at the Provincial School of Agriculture, Vermillion, Alberta, Canada, has been appointed associate professor of Agricultural Engineering.

D. W. Williams, B. S. Ohio State University, M. S. University of Illinois, formerly swine extensionman in South Carolina, has been appointed associate professor of Animal Husbandry.

R. S. Covey, graduate of the North Texas State Normal and the University of Texas, formerly superintendent of Penelope schools, has been appointed assistant professor of Agricultural Engineering.

R. P. Brown, B. S., A. and M. College of Texas, has been appointed as instructor in Mechanical Engineering.

Charles W. Crawford, B. S., A. and M. College of Texas, has been appointed as instructor in Mechanical Engineering.

Leroy Rhodes, B. Sc., University of Nebraska, formerly assistant professor of Agricultural Engineering in this institution but left here to enter air service of U. S. Army, was appointed associate professor of Agricultural Engineering.

Captain A. L. Tuttle has been detailed to this institution by the War Department as assistant professor of Military Science and Tactics.

Sgt. Roy W. Collier has been appointed instructor in Military Science and Tactics.

Sgt. Julian R. Wright has been appointed assistant commandant.

Hugh M. Milton, B. S., University of Kentucky, has been appointed instructor in Mechanical Engineering.

Clarence C. Braden, B. S., A. and M. College of Texas, has been appointed instructor in Drawing.

B. R. Avent, B. S., A. and M. College of Texas, post-graduate in Cornell University, formerly instructor in the Army, has been appointed instructor in Physics.

R. S. Fouraker, B. S., A. and M. College of Texas, with practical work in Westinghouse Electrical & Mfg. Co., graduate of Government School for Radio Officers at Columbia University, has been appointed as instructor in Drawing.

W. T. Donoho, B. S., A. and M. College of Texas with one term of graduate work in same institution, has been appointed instructor in Civil Engineering.

E. P. Hubbard, B. S., A. and M. College of Texas, has been appointed instructor in Electrical Engineering.

E. O. Slater, who specialized in shop work in the universities of Chicago and Missouri, has been appointed assistant professor of Mechanical Engineering.

W. A. Buice, B. S., University of Chicago, formerly head of Department of Biology, East Tennessee State Normal College, has been appointed assistant professor of Biology.

H. S. Salisbury, B. S., M. S., Carthage College, Illinois, formerly teacher in Independence Institute, Independence, Missouri, has been appointed associate professor of Geology.

C. M. McCay, B. A., University of Illinois, has been appointed instructor in Chemistry.

T. L. McConnell, B. A., Maryville College, formerly a teacher in public schools, has been appointed assistant professor of Mathematics.

Byron Bird, B. S., Iowa State College, C. E., University of Wisconsin, formerly teacher in public school, has been appointed associate professor of Highway Engineering.

P. K. Whelpton, B. S., Cornell, with graduate studies at Cornell and the University of Nebraska, formerly extension farm management teacher in Northern and Western states, has been appointed Professor of Farm Management.

W. J. Young, B. Phy. Ed., Springfield Y. M. C. A. College, Springfield, Mass., M. D., University of Pennsylvania, formerly athletic director and medical examiner of the University of Maine, has been appointed professor of Physical Education.

D. Scoates, B. S. and A. E., Iowa State College, formerly with Mississippi A. and M. College, has been appointed professor of Agricultural Engineering.

M. K. Thornton, Jr., B. S., Mississippi A. and M. College, A. M., Columbia University, formerly an instructor at this institution, has been appointed to the position of professor of Industrial Chemistry.

J. P. Buck, A. B., Baylor University, B. S., A. and M. College of Texas, formerly state high school inspector, has been appointed associate professor of Agricultural Education.

F. E. Spencer, Ph. D., was appointed associate professor of Modern Languages, but resigned before entering upon his duties.

Newton T. Bringham, A. B., Randolph Macon College, has been appointed associate professor of Textile Engineering.

E. W. Price, D. V. M., George Washington University,

Washington, D. C., with advanced work in University of Pennsylvania, has been appointed associate professor of Pathology.

J. M. Kellogg, B. A., M. A., Cornell University, formerly teacher in Cornell and University of Illinois, has been appointed associate professor of Architecture.

J. A. Clutter, B. S., Iowa State College, formerly assistant professor at Clemson College, has been appointed associate professor of Dairy Husbandry.

L. D. Bailiff, A. B., A. M., Stanford University, with one year's work toward Ph. D. degree, formerly teacher at Stanford University, has been appointed assistant professor of Modern Languages.

E. R. Alexander, A. B., Baylor University, formerly teacher in high school, has been appointed as assistant professor of English.

W. J. Gayden, B. A., Howard Payne, B. S., George Peabody College for Teachers, formerly teacher of Mathematics in Howard Payne College, has been appointed assistant professor of Mathematics.

R. K. Fletcher, B. A., University of Maine, M. A., Ohio State University, formerly teacher in Ohio State University, has been appointed assistant professor of Entomology.

Alvin R. Cahn, B. S., Cornell University, M. S., University of Wisconsin, two years work toward Ph. D., formerly instructor in the University of Wisconsin and instructor in U. S. School of Military Cinematography, has been appointed assistant professor of Biology.

D. B. Milner, B. S., A. and M. College of Texas, has been appointed as assistant professor of Drawing.

F. A. Lewis, B. A., University of Alabama, M. A., University of Alabama, one year graduate work at Johns Hopkins, University, formerly teacher in Boys High School, Frederick, Maryland, has been appointed assistant professor of Mathematics.

A. W. Jones, B. A., Kansas Wesleyan University, M. Sc., Kansas State Agricultural College, formerly teacher in Parsons College, Iowa, has been appointed assistant professor of Biology.

J. F. Nash, B. S., A. and M. College of Texas, with a course in testing with General Electric Co., has been appointed to the position of assistant professor of Electrical Engineering.

D. J. Pratt, A. B., Washburn College, Topeka, Kansas, A. M. University of Kansas, also several summers' research work, formerly bacteriologist in military service, has been appointed assistant professor of Biology.

R. D. Elliott, B. S., A. and M. College of Texas, with graduate work at Cornell, formerly teacher in E. E. Department of



Sibley College, Cornell University, has been appointed to the position of instructor in Electrical Engineering.

Robert Schaer, B. S., A. and M. College of Texas, has been appointed instructor in Chemistry.

D. C. Lange, B. S., M. S., University of Pennsylvania, formerly teacher in Washington State College, has been appointed instructor in Architecture.

A. J. Speith, A. B., Defiance College, Defiance, Ohio, has been appointed instructor in Chemistry.

B. H. Faber, B. S., A. and M. College of Texas, formerly junior civil engineer, Bureau of Valuation, Western District, Kansas City, Mo., has been appointed instructor in Civil Engineering.

Geo. L. Dickey, graduate of Sam Houston Normal Institute, has been appointed instructor in English.

Robert E. Hicks, formerly city reporter on San Antonio Express, was appointed Publicity Secretary.

M. A. Miller, A. B., M. A., University of South Carolina, with graduate studies at the universities of Chicago and California, formerly assistant professor in English at this institution, has been appointed Student Advisor in connection with the Y. M. C. A.

Mrs. W. H. Thomas, wife of W. H. Thomas, associate professor of English, has been appointed assistant librarian.

Mr. H. C. Gibson has been appointed instructor in Agricultural Engineering.

S. H. Hickman, formerly superintendent of Y. M. C. A. building, has been appointed instructor for federal students.

Miss Nell E. Pryor, former librarian of Rosenberg Library, Galveston, and librarian of San Antonio High School Library has been appointed Assistant Librarian.

John N. Lowe, Ph. D., formerly assistant professor of Biology but resigned to enter federal war service, was appointed associate professor of Biology.

V. K. Keller was appointed instructor in auto mechanics.

Frank O. Martin, educated at Baylor University, formerly reporter on Fort Worth Record, has been appointed Publicity Secretary.

G. A. Long, B. S., A. and M. College of Texas, formerly County Agent of Hunt County, has been appointed Director of Exhibits and Demonstrations.

G. D. Marckworth, B. S., Ohio State University, M. F., Yale University, formerly with the forestry regiment in France, has been appointed assistant State Forester.

Ransome J. Cole, B. S., A. and M. College of Texas, has been appointed instructor in Horticulture.

W. W. Derrick, B. S., A. and M. College of Texas, has been appointed assistant professor of Entomology.

Captain W. T. Bals has been detailed to this institution as assistant professor of Military Science and Tactics in charge of the cavalry unit.

## PROMOTIONS IN RANK.

The following promotions and changes in rank have been approved by the Board during the past year:

R. M. Green—from Associate Professor of Civil Engineering to Professor of Highway Engineering.

R. F. Smith—from Associate Professor to Professor of Mathematics.

O. B. Wooten—from Associate Professor of Electrical Engineering to Professor of Applied Electricity.

D. B. Cofer—from Assistant Professor to Associate Professor of Mathematics.

J. W. Mitchell—from Assistant Professor to Associate Professor of Mathematics.

J. B. Leake—from Instructor to Assistant Professor of Drawing.

A. D. Suttle—from Instructor to Assistant Professor of Agronomy.

W. A. Broyles—from Associate Professor to Professor of Agricultural Education.

## TEACHING STANDARDS IN THE COLLEGE.

During the session of 1918-19 a special committee, composed of the deans of the college, was appointed to make a survey of the teaching standards in all schools and departments of the college. This committee visited at least one class of every teacher in the institution and carefully observed the quality of instruction. The survey extended over the entire scholastic year. The report of the committee showed that on the whole a good standard of teaching was being maintained in the institution. But as a result of the survey it was found necessary to make a few changes in the personnel of the teaching staff. It was believed by the committee that the fact that the quality of instruction and class management was being checked up had a wholesome effect on the entire teaching force.

Following up this plan the dean of the college sent to the head of each of the departments blank cards at the beginning of the current scholastic year in September, 1919, with the request



that the head of the department visit the classes in his department from time to time and report on the following:

Name  
 Academic Title.  
 Years of service in this College.  
 General academic training.  
 Special training for the work of his department.  
 Personality.  
 Teaching ability.  
 Class and laboratory management.  
 Clearness in presenting his subject.  
 Tact in dealing with students.  
 Promptness in meeting his appointments and in getting his work done.  
 Efficiency in department work aside from teaching.  
 Interest in the affairs of his department.  
 Interest in the affairs of the College and of the community.

Date\_\_\_\_\_ Signed\_\_\_\_\_

Head of Department of\_\_\_\_\_

Instructions were given with reference to grading as follows:

M, medium, using the word in its ordinary sense.  
 S, superior.  
 E, excellent; to be applied to the few most excellent instructors.  
 I, inferior.  
 (Space for additional remarks).  
 F, unsatisfactory.

The heads of all departments reported to the dean on April 1, 1920, the summary of which is as follows:

| Grade | Number    | Per cent  |
|-------|-----------|-----------|
| M     | 369       | 39        |
| S     | 339       | 35        |
| E     | 216       | 23        |
| I     | 31        | 3         |
| F     | 2         | ---       |
|       | <hr/> 915 | <hr/> 100 |

#### PER CENT.

|                               | M        | S        | E        | I       | F       |
|-------------------------------|----------|----------|----------|---------|---------|
| Teaching ability . . . . .    | <hr/> 35 | <hr/> 26 | <hr/> 26 | <hr/> 2 | <hr/> 1 |
| Clearness in presentation . . | 28       | 43       | 14       | 4       | 0       |

# TRAINING AND EXPERIENCE OF THE TEACHING STAFF.

(Department of Military Science and Tactics not Included).

| Title                           | Department | Academic Training          |                    | College Teaching |            |      |
|---------------------------------|------------|----------------------------|--------------------|------------------|------------|------|
|                                 |            | Highest Degree             | Institution        | Yrs. at A. M. C. | Yrs. Elsw. | Tot. |
| 1. Prof., Col. Dean. . . Math.  |            | C. E. . . . .              | Virginia           | 31               | 1          | 32   |
| 2. Prof., Dean, . Veterinary    |            | D. V. M. . . . .           | Ohio               | 32               | 0          | 32   |
| 3. Prof., Dean, . Agriculture   |            | M. S. A. . . . .           | Cornell            | 18               | 0          | 18   |
| 4. Prof. . . . . English        |            | A. M. . . . .              | Harvard            | 21               | 10         | 31   |
| 5. Prof. . . . . Biology        |            | Ph. D. . . . .             | Leipzig            | 17               | 1          | 18   |
| 6. Prof. . . . . Mech. Eng.     |            | M. E. . . . .              | Purdue             | 14               | 6          | 20   |
| 7. Prof. . . . . Textile Eng.   |            | B. A. . . . .              | Wake Forest        | 15               | 0          | 15   |
| 8. Prof. . . . . Elec. Eng.     |            | B. S. . . . .              | Miss. A. & M. C.   | 11               | 5          | 16   |
| 9. Prof. . . . . Agronomy       |            | Ph. D. . . . .             | Cornell            | 8                | 5          | 13   |
| 10. Prof. . . . . Animal Hus.   |            | B. S. . . . .              | Texas A. & M. C.   | 16               | 0          | 16   |
| 11. Prof. . . . . Drawing       |            | B. C. E., Texas A. & M. C. |                    | 18               | 0          | 18   |
| 12. Prof. Chem. & Chem. Eng     |            | Ph. D. . . . .             | Cornell            | 7                | 8          | 15   |
| 13. Prof. . . . . Agri. Edu.    |            | A. M. . . . .              | Missouri           | 7                | 1          | 8    |
| 14. Prof. Modern Languages      |            | Ph. D. . . . .             | Chicago            | 12               | 1          | 13   |
| 15. Prof. . Dairy Husbandry     |            | M. S. . . . .              | Ala. Poly. Inst.   | 10               | 2          | 12   |
| 16. Prof. . . . . Veterinary    |            | D. V. M. . . . .           | Ohio               | 15               | 0          | 15   |
| 17. Prof. . . . . Physics       |            | Ph. D. . . . .             | Chicago            | 4                | 6          | 10   |
| 18. Prof. . . . . Economics     |            | Ph. D. . . . .             | Johns Hopkins      | 4                | 4          | 8    |
| 19. Prof., Dean. . . . . Eng.   |            | M. C. E. . . . .           | Cornell            | 26               | 0          | 26   |
| 20. Prof. . . . . Forestry      |            | B. A. . . . .              | Nebraska           | 2                | 2          | 4    |
| 21. Prof. . . . . Entomology    |            | M. A. . . . .              | Ohio               | 7                | 0          | 7    |
| 22. Prof. . . . . History       |            | A. M. . . . .              | Chicago            | 2                | 6          | 8    |
| 23. Prof. . . . . Arch. Eng.    |            | B. Arch. . . . .           | Cornell            | 2                | 0          | 2    |
| 24. Prof. . . . . Physical Edu. |            | M. D. . . . .              | Pennsylvania       | 1                | 4          | 5    |
| 25. Prof. . . . . Agr. Eng.     |            | A. E. . . . .              | Iowa State College | 1                | 9          | 10   |
| 26. Prof. . . . . Farm Manag.   |            | B. S. . . . .              | Cornell            | 1                | 0          | 1    |
| 27. Prof. . . . . Steam Eng.    |            | M. E. . . . .              | Cornell            | 9                | 13         | 22   |
| 28. Prof. . . . . Ry. Eng.      |            | C. E. . . . .              | Texas A. & M. C.   | 11               | 0          | 11   |
| 29. Prof. . . Structural Eng.   |            | C. E. . . . .              | Illinois           | 8                | 6          | 14   |
| 30. Prof. . . Veg. Gardening    |            | M. S. . . . .              | California         | 8                | 0          | 8    |
| 31. Prof. Animal Husbandry      |            | M. S. . . . .              | Iowa State College | 2                | 5          | 7    |
| 32. Prof. . . . . Civil Eng.    |            | M. Sc. . . . .             | Columbia           | 4                | 1          | 5    |
| 33. Prof. . . . . Mathematics   |            | . . . . .                  | . . . . .          | 38               | 0          | 38   |
| 34. Prof. . . . . Elec. Eng.    |            | B. S. . . . .              | Illinois           | 1                | 0          | 1    |
| 35. Prof. . . Indus. Chemistry  |            | A. M. . . . .              | Columbia           | 6                | 0          | 6    |
| 36. Prof. . . . . Ag. Edu.      |            | M. A. . . . .              | Wisconsin          | 4                | 0          | 4    |
|                                 |            |                            |                    |                  |            |      |
| 1. Asso. Prof. Animal Hus.      |            | A. M. . . . .              | Missouri           | 4                | 0          | 4    |
| 2. Asso. Prof. . . . Biology    |            | Ph. D. . . . .             | Chicago            | 2                | 8          | 10   |
| 3. Asso. Prof. . . Mech. Eng.   |            | M. E. . . . .              | Cornell            | 2                | 11         | 13   |
| 4. Asso. Prof. . . Agr. Edu.    |            | A. B. . . . .              | Oberlin            | 3                | 2          | 5    |
| 5. Asso. Prof. . . . English    |            | B. Lit. . . . .            | Texas University   | 14               | 0          | 14   |
| 6. Asso. Prof. . . Agronomy     |            | B. S. . . . .              | Texas A. & M. C.   | 8                | 0          | 8    |
| 7. Asso. Prof. . Horticulture   |            | M. S. . . . .              | Cornell            | 7                | 1          | 8    |
| 8. Asso. Prof. . . . English    |            | A. B. . . . .              | Northwestern       | 5                | 0          | 5    |
| 9. Asso. Prof. . . Chemistry    |            | M. S. . . . .              | Wisconsin          | 3                | 3          | 6    |
| 10. Asso. Prof. . . Civil Eng.  |            | B. S. . . . .              | Texas A. & M. C.   | 9                | 0          | 9    |
| 11. Asso. Prof. . . Chemistry   |            | M. S. . . . .              | Vanderbilt         | 3                | 0          | 3    |
| 12. Asso. Prof. . . Chemistry   |            | A. M. . . . .              | Wisconsin          | 3                | 5          | 8    |
| 13. Asso. Prof. . . Indus. Edu. |            | B. S. . . . .              | Purdue             | 2                | 0          | 2    |
| 14. Asso. Prof. . . Indus. Edu. |            | M. A. . . . .              | Western Reserve    | 2                | 0          | 2    |

| Title                           | Department | Academic Training          |                  | College Teaching |            |      |
|---------------------------------|------------|----------------------------|------------------|------------------|------------|------|
|                                 |            | Highest Degree             | Institution      | Yrs. at A.M.C.   | Yrs. Elsw. | Tot. |
| 15. Asso. Prof. .... Geology    |            | M. A.....                  | N. Carolina      | 2                | 6          | 8    |
| 16. Asso. Prof. .... Drawing    |            | B. S.....                  | Pennsylvania     | 11               | 0          | 11   |
| 17. Asso. Prof. .... Bology     |            | A. M.....                  | Central U.       | 9                | 0          | 9    |
| 18. Asso. Prof. . Poultry Hus.  |            | B. S. ....                 | Cornell          | 6                | 0          | 6    |
| 19. Asso. Prof. .. Elec. Eng.   |            | B. S.....                  | Kansas Ag.       | 4                | 2          | 6    |
| 20. Asso. Prof. . Mathematics   |            | B. A.....                  | Maryville, Tenn. | 13               | 1          | 14   |
| 21. Asso. Prof. . Mathematics   |            | A. M.....                  | Michigan         | 11               | 3          | 14   |
| 22. Asso. Prof. . Textile Eng.  |            | A. B.....                  | Randolph-Macon   | 1                | 0          | 1    |
| 23. Asso. Prof. .... English    |            | A. B.....                  | Centre College   | 10               | 1          | 11   |
| 24. Asso. Prof. .. Veterinary   |            | D. V. M.....               | Cornell          | 2                | 1          | 3    |
| 25. Asso. Prof. .. Veterinary   |            | D. V. M., K. C. Vet. Col.  |                  | 1                | 0          | 1    |
| 26. Asso. Prof. .. Veterinary   |            | D. V. M., .. Geo. Wash. U. |                  | 1                | 0          | 1    |
| 27. Asso. Prof. .. Civil Eng.   |            | C. E.....                  | Wisconsin        | 2                | 0          | 2    |
| 28. Asso. Prof. . Architectural |            | M. Arch .....              | Cornell          | 1                | 6          | 7    |
| 29. Asso. Prof. .. Dairy Hus.   |            | B. S. ....                 | Iowa State       | 4                | 2          | 6    |
| 30. Asso. Prof. ... Agr. Edu.   |            | B. Sc.....                 | Nebraska         | 4                | 2          | 6    |
| 31. Asso. Prof. ... Agr. Edu.   |            | B. S.....                  | Iowa State       | 1                | 0          | 1    |
| 32. Asso. Prof. . Animal Hus.   |            | M. S.....                  | Illinois         | 1                | 0          | 1    |
| 33. Asso. Prof. .... Geology    |            | M. S.....                  | Carthage, Ill.   | 1                | 1          | 2    |
|                                 |            |                            |                  |                  |            |      |
| 1. Asst. Prof. . Mathematics    |            | B. A.....                  | Emory College    | 11               | 0          | 11   |
| 2. Asst. Prof. .... Physics     |            | B. S. ...                  | Okla. A. & M. C. | 10               | 0          | 10   |
| 3. Asst. Prof. . Mathematics    |            | A. M.....                  | Illinois         | 9                | 3          | 12   |
| 4. Asst. Prof. .... English     |            | M. A.....                  | N. Carolina      | 9                | 0          | 9    |
| 5. Asst. Prof. .... English     |            | M. A.....                  | Harvard          | 4                | 2          | 6    |
| 6. Asst. Prof. .... Physics     |            | Ph. D.....                 | Cornell          | 3                | 10         | 13   |
| 7. Asst. Prof. ... Chemistry    |            | S. B.....                  | Chicago          | 3                | 0          | 3    |
| 8. Asst. Prof. . Textile Eng.   |            | B. S....                   | Texas A. & M. C. | 3                | 0          | 3    |
| 9. Asst. Prof. . Mathematics    |            | A. B.....                  | Howard College   | 2                | 0          | 2    |
| 10. Asst. Prof. .... English    |            | Ph. D.....                 | N. Carolina      | 2                | 15         | 17   |
| 11. Asst. Prof. ... Forestry    |            | M. F. ....                 | Harvard          | 2                | 0          | 2    |
| 12. Asst. Prof. . Horticulture  |            | B. S.....                  | Missouri         | 1                | 1          | 2    |
| 13. Asst. Prof. . Modern Lan.   |            | A. M.....                  | Stanford         | 1                | 2          | 3    |
| 14. Asst. Prof. .... English    |            | A. B.....                  | Baylor U.        | 1                | 0          | 1    |
| 15. Asst. Prof. ... Agronomy    |            | B. S. A...                 | Miss. A. & M. C. | 3                | 0          | 3    |
| 16. Asst. Prof. .. Entomology   |            | M. A. ....                 | Ohio             | 1                | 2          | 3    |
| 17. Asst. Prof. .... Biology    |            | M. S.....                  | Wisconsin        | 1                | 5          | 6    |
| 18. Asst. Prof. .... Drawing    |            | B. S....                   | Texas A. & M. C. | 1                | 0          | 1    |
| 19. Asst. Prof. . Mathematics   |            | M. A. ....                 | Alabama          | 1                | 2          | 3    |
| 20. Asst. Prof. .... Biology    |            | A. M.....                  | Kansas           | 1                | 4          | 5    |
| 21. Asst. Prof. .. Elec. Eng.   |            | B. S....                   | Texas A. & M. C. | 1                | 0          | 1    |
| 22. Asst. Prof. ... Agr. Edu.   |            | .....                      | .....            | 1                | 0          | 1    |
| 23. Asst. Prof. ... Agr. Eng.   |            | B. S....                   | Texas A. & M. C. | 3                | 0          | 3    |
| 24. Asst. Prof. ... Mech. Eng.  |            | .....                      | .....            | 1                | 0          | 1    |
| 25. Asst. Prof. ... Biology     |            | B. S.....                  | Chicago          | 1                | 2          | 3    |
| 26. Asst. Prof (Act). .. Math   |            | B. A.....                  | Howard Payne     | 1                | 1          | 2    |
| 27. Asst. Prof. (Act.) . Math.  |            | A. B.....                  | Magville, Tenn.  | 1                | 0          | 1    |
|                                 |            |                            |                  |                  |            |      |
| 1. Inst. .... Mech. Eng.        |            | .....                      | .....            | 11               | 4          | 15   |
| 2. Inst. .... English           |            | A. M....                   | Roanoke College  | 6                | 6          | 12   |
| 3. Inst. .... Chemistry         |            | M. A.....                  | Univ. of Denver  | 3                | 0          | 3    |
| 4. Inst. .... Physics           |            | A. M.....                  | Trinity, N. C.   | 2                | 5          | 7    |
| 5. Inst. .... Chemistry         |            | B. S....                   | Texas A. & M. C. | 2                | 0          | 2    |
| 6. Inst. . Animal Husbandry     |            | B. S....                   | Texas A. & M. C. | 2                | 0          | 2    |
| 7. Inst. .... Drawing           |            | B. S....                   | Texas A. & M. C. | 2                | 0          | 2    |

| Title          | Department        | Academic Training |                  | College Teaching |            |      |
|----------------|-------------------|-------------------|------------------|------------------|------------|------|
|                |                   | Highest Degree    | Institution      | Yrs. at A.M.C.   | Yrs. Elsw. | Tot. |
| 8. Inst. ....  | Electrical Eng.   | B. S....          | Texas A. & M. C. | 1                | 0          | 1    |
| 9. Inst. ....  | Electrical Eng.   | B. S....          | Texas A. & M. C. | 1                | 1          | 2    |
| 10. Inst. .... | Drawing           | B. S....          | Texas A. & M. C. | 1                | 0          | 1    |
| 11. Inst. .... | Chemistry         | B. S....          | Texas A. & M. C. | 1                | 0          | 1    |
| 12. Inst. .... | Architectural     | B. S. ....        | Pennsylvania     | 1                | 4          | 5    |
| 13. Inst. .    | Mech. Engineering | B. S. ....        | Kentucky         | 1                | 0          | 1    |
| 14. Inst. .... | Chemistry         | A. B. ....        | Defiance         | 1                | 0          | 1    |
| 15. Inst. .    | Mech. Engineering | B. S....          | Texas A. & M. C. | 1                | 0          | 1    |
| 16. Inst. .    | Mech. Engineering | B. S....          | Texas A. & M. C. | 1                | 0          | 1    |
| 17. Inst. .    | Civil Engineering | B. S....          | Texas A. & M. C. | 1                | 0          | 1    |
| 18. Inst. .... | Drawing           | B. S....          | Texas A. & M. C. | 1                | 0          | 1    |
| 19. Inst. .... | Physics           | B. S....          | Texas A. & M. C. | 1                | 0          | 1    |
| 20. Inst. .... | Horticulture      | B. S....          | Texas A. & M. C. | 1                | 0          | 1    |
| 21. Inst. .... | Chemistry         | A. B. ....        | Illinois         | 1                | 0          | 1    |

Of these 117 teachers, 53 have the bachelor's degree only, 45 the master's degree and 15 the doctor's degree. The number holding the bachelor's degree from this college and no higher degree is 20. (This does not include the Department of Military Science and Tactics).

#### SUMMARY OF DATA CONCERNING TRAINING AND EXPERIENCE OF THE TEACHING STAFF.

| Highest Degree Held |       |      |       |      | College Teaching Experience Years |    |    |    |    |    |      |     |
|---------------------|-------|------|-------|------|-----------------------------------|----|----|----|----|----|------|-----|
| Rank                | Total | Num. | Bach. | Mas. | Dr.                               | 1  | 6  | 11 | 16 | 21 | Over | Av. |
|                     |       |      |       |      |                                   | 5  | 10 | 15 | 20 | 25 |      |     |
| Professors . . . .  | 36    | 8    | 18    | 9    | 7                                 | 9  | 8  | 6  | 1  | 5  | 13.6 |     |
| Asso. & Asst.       |       |      |       |      |                                   |    |    |    |    |    |      |     |
| Professors . . .    | 60    | 28   | 24    | 6    | 33                                | 17 | 10 | 0  | 0  | 0  | 5.6  |     |
| Instructors . . .   | 21    | 17   | 3     | 0    | 18                                | 1  | 2  | 0  | 0  | 0  | 3.0  |     |
| Total . . .         | 117   | 53   | 45    | 15   | 58                                | 27 | 20 | 6  | 1  | 5  | 7.6  |     |

## NUMBER OF TEACHERS OF EACH RANK AND THE TOTAL IN EACH DEPARTMENT.

| Department          | 1  | 2  | 3  | 4  | 5  | Total |
|---------------------|----|----|----|----|----|-------|
| Ag. Eng. ....       | 1  | 2  | 1  | 0  | 0  | 4     |
| Agronomy ....       | 1  | 1  | 1  | 0  | 0  | 3     |
| Animal Husbandry    | 2  | 3  | 0  | 1  | 0  | 6     |
| Architecture ....   | 1  | 1  | 0  | 1  | 0  | 3     |
| Biology ....        | 1  | 2  | 3  | 0  | 0  | 6     |
| Chemistry ....      | 2  | 5  | 1  | 5  | 0  | 13    |
| Civil Engineering . | 4  | 2  | 0  | 1  | 0  | 7     |
| Dairy Husbandry .   | 1  | 1  | 0  | 0  | 0  | 2     |
| Drawing ....        | 1  | 1  | 1  | 3  | 0  | 6     |
| Economics ....      | 1  | 0  | 0  | 0  | 0  | 1     |
| Electrical Eng. ... | 2  | 1  | 1  | 2  | 0  | 6     |
| English ....        | 1  | 3  | 4  | 1  | 2  | 11    |
| Entomology ....     | 1  | 0  | 1  | 0  | 0  | 2     |
| Farm Management     | 1  | 0  | 1  | 0  | 0  | 2     |
| Forestry ....       | 1  | 0  | 0  | 0  | 0  | 1     |
| History ....        | 1  | 0  | 0  | 0  | 0  | 1     |
| Horticulture ....   | 2  | 1  | 1  | 1  | 0  | 5     |
| Mathematics ....    | 2  | 2  | 6  | 0  | 0  | 10    |
| Mechanical Eng. .   | 2  | 1  | 1  | 4  | 1  | 9     |
| Military Science .. | 1  | 0  | 3  | 0  | 9  | 13    |
| Modern Language     | 1  | 0  | 1  | 0  | 0  | 2     |
| Physical Education  | 1  | 0  | 0  | 0  | 0  | 1     |
| Physics ....        | 1  | 0  | 2  | 2  | 0  | 5     |
| Textile Eng. ....   | 1  | 1  | 1  | 0  | 0  | 3     |
| Vet. Anatomy ....   | 1  | 0  | 0  | 0  | 0  | 1     |
| Vet. Medicine ....  | 1  | 1  | 0  | 0  | 0  | 2     |
| Vet. Pathology ...  | 0  | 1  | 0  | 0  | 0  | 1     |
| Vet. Physiology ..  | 0  | 1  | 0  | 0  | 0  | 1     |
| Vocational Teach.   | 2  | 3  | 1  | 0  | 0  | 6     |
|                     | 37 | 33 | 30 | 21 | 12 | 133   |

Column 1 indicates the number of full professors.

Column 2 indicates the number of associate professors.

Column 3 indicates the number of assistant professors.

Column 4 indicates the number of instructors.

Column 5 indicates the number of assistant instructors.

## LENGTH OF SERVICE AND GEOGRAPHICAL DIS- TRIBUTION OF TEACHING FORCE.

The average number of years of teaching in this college (including the current year) for the several ranks, not including the Department of Military Science, is as follows:

|                            | Years |
|----------------------------|-------|
| Professors .....           | 10.9  |
| Associate Professors ..... | 4.6   |
| Assistant Professors ..... | 2.9   |
| Instructors .....          | 2.0   |
| Average (117) .....        | 5.7   |



The nativity of the members of the teaching staff is as follows:

|                |   |                      |   |                      |    |
|----------------|---|----------------------|---|----------------------|----|
| Alabama .....  | 6 | Louisiana .....      | 1 | Ohio .....           | 6  |
| Arkansas ..... | 1 | Maine .....          | 1 | Pennsylvania .....   | 2  |
| Colorado ..... | 1 | Massachusetts .....  | 2 | South Carolina ..... | 1  |
| Delaware ..... | 1 | Michigan .....       | 2 | Tennessee .....      | 6  |
| Georgia .....  | 2 | Minnesota .....      | 2 | Texas .....          | 30 |
| Illinois ..... | 3 | Mississippi .....    | 4 | Virginia .....       | 6  |
| Indiana .....  | 7 | Missouri .....       | 4 | West Virginia .....  | 1  |
| Iowa .....     | 2 | Nebraska .....       | 4 | Wisconsin .....      | 1  |
| Kansas .....   | 5 | New Jersey .....     | 1 | Germany .....        | 1  |
| Kentucky ..... | 3 | New York .....       | 3 | Russia .....         | 1  |
|                |   | North Carolina ..... | 6 |                      |    |

South 70; North 45; Foreign 2.

## DISTRIBUTION OF CLASS SECTIONS.

ACCORDING TO THE NUMBER OF STUDENTS REGISTERED  
IN EACH.

| Size of<br>Sec. | 1918-19       |                |               |             | 1919-20       |                |               |             |
|-----------------|---------------|----------------|---------------|-------------|---------------|----------------|---------------|-------------|
|                 | First<br>Term | Second<br>Term | Both<br>Terms | Per<br>Cent | First<br>Term | Second<br>Term | Both<br>Terms | Per<br>Cent |
| 1 to 5 stud..   | 26            | 85             | 111           | 16.9        | 41            | 83             | 124           | 8.9         |
| 6 to 10 stud..  | 11            | 49             | 60            | 9.2         | 65            | 97             | 162           | 11.6        |
| 11 to 20 stud.. | 140           | 133            | 273           | 41.7        | 221           | 384            | 605           | 43.2        |
| 21 to 30 stud.. | 99            | 89             | 188           | 28.8        | 230           | 158            | 388           | 27.7        |
| 31 to 40 stud.. | 7             | 5              | 12            | 1.8         | 55            | 32             | 87            | 6.2         |
| 41 to 50 stud.. | 1             | 2              | 3             | 0.5         | 11            | 5              | 16            | 1.1         |
| 51 to 60 stud.. | 0             | 0              | 0             | 0           | 4             | 1              | 5             | 0.4         |
| 61 to 70 stud.. | 0             | 0              | 0             | 0           | 0             | 0              | 1             | 0.1         |
| Over 70 .....   | 7             | 1              | 8             | 1.2         | 6             | 5              | 11            | 0.8         |
| Total.....      | 291           | 364            | 655           | 100.1       | 633           | 766            | 1399          | 100.0       |

The ratio of the number of students to the number of instructors is 12.3.

## COLLEGE DISCIPLINE.

The report of the Commandant shows that discipline has not been a serious problem in the college during the current year.

The general change in policy with reference to administering discipline and the change from a military to a civilian Commandant resulted in radical departures in the College Regulations. Guard duty was abandoned and sentinels removed from the dormitories. Responsibility for the conduct in quarters was upon the senior commissioned and noncommissioned officers. Locks were placed on the doors and screens on the windows and other minor changes were made. Only such rules as will insure gentlemanly conduct, attention to duty and the preservation of college property were made. A liberal policy with reference to



furloughs and passes for those men whose work or finances do not suffer from leave as was contemplated in the pass was pursued by the Commandant.

All of the changes mentioned above may be dismissed with the simple statement that they resulted satisfactorily. Especially was this true of the manner in which the cadets measured up to their responsibilities. Conduct seemingly has been better this year than in previous years, a better spirit has prevailed and more consideration has been shown to buildings and equipment, if we are to judge by records and statements of those who have been associated with this office for some years.

An analysis of records shows the following facts:

|  |     |
|--|-----|
| Dropped for not returning from furlough,                   |     |
| Cadets .....   | 55  |
| Federal Students .....                                     | 13  |
| Dropped for failure to return for second term,             |     |
| Cadets .....   | 63  |
| Resigned on account of sickness, Surgeon's recommendation, |     |
| Cadets .....   | 19  |
| Federal students .....                                     | 3   |
| Resigned for personal reasons,                             |     |
| Cadets .....   | 35  |
| Federal students .....                                     | 22  |
| Transferred to another school,                             |     |
| Federal Students .....                                     | 24  |
| Required to withdraw, excess of demerits,                  |     |
| Cadets .....   | 6   |
| Dropped by action of Discipline Committee,                 |     |
| Cadets .....   | 6   |
| Died,  |     |
| Cadet (Cooper, R. F.) .....                                | 1   |
| Cadets:  |     |
| Receiving no demerits this year .....                      | 127 |
| Receiving no demerits first term .....                     | 142 |
| Receiving no demerits 2nd term .....                       | 75  |
| Receiving 50 % limit demerits, 1st term ..                 | 25  |
| Receiving 50 % limit demerits, 2nd term ..                 | 136 |
| Receiving 2-3 limit demerits, 1st term ...                 | 31  |
| Receiving 2-3 limit demerits, 2nd term ...                 | 66  |
| Civilian Students:   |     |
| Receiving no demerits this year .....                      | 115 |
| Receiving no demerits first term .....                     | 56  |
| Receiving no demerits 2nd term .....                       | 108 |
| Receiving 50 % limit demerits, 1st term ..                 | 15  |
| Receiving 50 % limit demerits, 2nd term ..                 | 23  |
| Receiving 2-3 limit demerits, 1st term ...                 | 10  |
| Receiving 2-3 limit demerits, 2nd term ...                 | 22  |

In the tabulation of demerits for civilian students above the majority were federal students, practically their demerits being for "absent from classes."

## RELIGIOUS ACTIVITIES IN THE COLLEGE.

The religious interests of the college are being given increasing consideration year after year. A school of religious instruction is conducted on each Sunday morning under the auspices of the Y. M. C. A. This organization has also conducted a religious service on each Sunday evening. The Catholics, Episcopalians, Methodists, Baptists and Presbyterians have held a denominational group meeting also on each Sunday. All of these religious services have been well attended.

The Methodist church has assigned a students' pastor to the college and several other of the denominations contemplate a similar step in the near future. The college authorities are encouraging this plan with the belief that a more normal religious interest will be maintained through these group meetings.

It is the practice in this college to hold a religious convocation on each Sunday morning at eleven o'clock. Outstanding pulpit speakers and moral leaders of the several denominations are invited on successive Sundays to address the faculty and students. These services have proven very helpful and interesting. Perhaps no student body in the country has a better opportunity to hear speakers of such ability.

## PHYSICAL EDUCATION AND SANITATION.

The report of Dr. William J. Young, Director of Physical Education and Sanitary Inspector, indicates the policy of the college with reference to attention to the physical condition of students and the safeguards that are provided for making the college community a healthful place in which to live.

During the year about one thousand complete physical examinations have been made, the same being recorded and filed for future reference. The tabulated results of the examination of the freshman class are as follows:

|   | per cent. |
|---|-----------|
| Total number of freshmen examined . . . . .     | 491       |
| Total found under weight . . . . .              | 331       |
| Total found over weight or normal . . . . .     | 160       |
| Carriage  |           |
| Erect . . . . .                                 | 297       |
| Stooping . . . . .                              | 194       |
| Defects in upper extremity . . . . .            | 10        |
| Defects in lower extremity outside of flat feet | 17        |
| Flat Feet . . . . .                             | 22        |
| Skin diseases . . . . .                         | 43        |
| Hernia . . . . .                                | 4         |
| Hemorrhoids . . . . .                           | 11        |
| Eyes needing glasses, without . . . . .         | 86        |
|   | 17        |

|  |     |    |
|--|-----|----|
| Obstructed breathing .....                     | 9   | 1  |
| Color perception defects .....                 | 4   | .8 |
| Enlarged tonsils .....                         | 78  | 15 |
| Cardiac defects .....                          | 13  | 2  |
| Nervous defects .....                          | 4   | .8 |
| Ear defects (hearing) .....                    | 17  | 3  |
| Needing dentist (teeth) .....                  | 53  | 10 |
| With teeth missing .....                       | 55  | 11 |
| Pulmonary defects .....                        | 2   | .4 |
| Bleeding gums .....                            | 10  | 2  |
| Smokers .....                                  | 197 | 40 |
| Non-smokers .....                              | 315 | 60 |
| Never had physical training .....              | 349 | 70 |
| Never had athletics .....                      | 88  | 17 |
| Never had physical training or athletics ..... | 87  | 17 |
| Number of men found unfit for military service | 21  | 4  |
| Number of men referred to the surgeon.....     | 100 | 20 |

All men with defects were instructed upon the proper methods to overcome the same.

Each man examined in the freshman class received one each of the following papers: "Common Colds", "Typhoid Fever: Its Cause and Prevention", "Malaris: Its Cause and Prevention", "Keeping Fit", "Man Power", "The Rat", "How to Avoid Tuberculosis," and "Diphtheria."

The Military Department and athletic coaches have been kept informed as to results of examinations.

Nearly 250 men received the typhoid vaccine.

The supervision of the sanitation of dairy, mess hall and the campus as a whole has been kept up to date.

The following are the figures regarding recreation:

Men taking part in college sports:

|                  |       |       |
|------------------|-------|-------|
| Football .....   | 73    |       |
| Baseball .....   | 30    |       |
| Basketball ..... | 25    |       |
| Track .....      | 50    |       |
| Tennis .....     | 70    |       |
|                  | <hr/> | <hr/> |
|                  | 250   | 250   |

Intra-mural sports and minor sports:

|                            |       |       |
|----------------------------|-------|-------|
| Football .....             | 150   |       |
| Baseball .....             | 200   |       |
| Basketball .....           | 70    |       |
| Wrestling and boxing ..... | 100   |       |
|                            | <hr/> | <hr/> |
|                            | 520   | 520   |
|                            | <hr/> | <hr/> |
| Total.....                 |       | 770   |

## HEALTH OF COLLEGE STUDENTS.

The report of the surgeon shows that the health of college students was good throughout the college year, with the exception of the epidemic of influenza in January and February. Influenza developed complications, resulting in ten cases of pneumonia, two of which developed empyema, necessitating operation and drainage of chest. The fact that not a single death occurred from this epidemic is sufficient in itself to indicate the skill of the college physician and the faithful performance of duty on the part of the college nurses. There were a few cases of malaria, but none of these were contracted on the campus. In fact, there was no sickness during this session that could be attributed to local conditions, according to the report of the college surgeon.

There was only one death in the student body during the year. This student died suddenly of chronic heart disease.

## TRAINING DISABLED SOLDIERS.

During this scholastic year the college has had three hundred and twelve disabled soldiers pursuing courses in the college. These men are under the supervision of the Federal Board for Vocational Education. They differ widely in educational training and it has been somewhat of a problem to provide courses and teachers for them. A number, however, were qualified for regular two-year and four-year courses and these were placed in regular classes, but those who were not prepared to enter the college courses were provided with special teachers. Five instructors were employed to conduct these special courses.

Mr. E. C. Nash, a graduate of the college, was appointed early in the year by the Federal Board as coordinator, and he has been very helpful both to the students and to the college authorities in working out details connected with the training of these men. The college authorities have made every possible effort to make the instruction as profitable as possible and every possible facility that the college afforded has been placed at the disposal of the students pursuing these courses.

## PERMANENT IMPROVEMENTS.

The building program of the college has been somewhat retarded as a result of war conditions. The ten-year building program that was inaugurated by the Board of Directors in 1916 cannot be completed within the period\*. But it will be gratifying to the friends of the college to know that there has not been a time since February 1, 1915, that some permanent building has not been under construction on the campus. High prices in material and labor, however, and the demoralized conditions of transportation have created unusual financial problems and interfered

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\*See 20th Biennial Report, page 30.



greatly with the normal processes of construction. But throughout the war period our building operations have continued and are continuing today.

On February 15, 1920, the new administration building for the department of Mechanical Engineering was completed and occupied. This building is 52 feet wide and 94 feet long. It comprises a high basement and three stories, and is modern and fireproof in all respects. In the basement are provided two laboratories, preparation, storage and shipping rooms. On the first floor are administrative offices, reception and display rooms for model equipment; on the second floor are rooms for offices, lecture rooms and departmental library; on the third floor are two large drafting rooms, blue print room, and a small auditorium with a seating capacity for approximately three hundred. The appropriation of \$75,000 for this building was provided by the first called session of the thirty-fifth legislature.

The physics building, for which an appropriation of \$60,000 was provided by the first called session of the thirty-fifth legislature, and a supplementary appropriation of \$36,762 by the regular session of the thirty-sixth legislature, was completed on August 1, 1920, and is ready for occupancy at the opening of the session in September 1920. This building is 61 feet wide by 120 feet long. It is modern and fireproof in all respects, and houses one of the most completely equipped departments of its kind in the South. The building comprises a well-lighted basement and two upper stories. In the basement are located the heat, optical and magnetic laboratories, five small laboratories, dark rooms, storage rooms and toilets; on the first floor are the general laboratory, electrical laboratory, four offices, shop and apparatus rooms; on the second floor are five recitation rooms, a small lecture hall, apparatus room, and a small auditorium with seating capacity for approximately three hundred persons.

An additional story has been added to the Y. M. C. A. building which is rapidly nearing completion. It has long been the desire of the friends of the college to complete this building. The Y. M. C. A. building occupies an imposing position on the campus and it is the center of the social and religious activities of the college. The additional story that has been added provides rooms for official guests of the college and contains a dining room for small banquets, and a large conference room. The completion of this building is an event of great importance to the college. It is one of the most beautiful and conveniently arranged Y. M. C. A. buildings in the entire country. Its completion will greatly increase the usefulness of the building for religious and social purposes.

Several important improvements have been made in the Department of Veterinary Medicine during the year. An addition to the veterinary hospital has been completed and occu-



The New Physics Building, erected and equipped at a cost of approximately \$125,000.





A section of the Veterinary Hospital. This building is used in connection with instruction of students taking courses in Veterinary Medicine.

pied during the year. This addition is 47 feet wide by 76 feet long and is constructed of wood and concrete. The exterior was designed to match the architecture of the veterinary hospital. It has been divided into the following rooms: Toilet room with shower bath supplied with hot and cold water, wash basins, toilets and lockers for the students; a drug and instrument room; a large operating room 40x40, with three large sky-lights; these rooms have been plastered with cement plaster, which makes it possible to thoroughly wash and disinfect it; one large colic stall; two ordinary box-stalls; an alleyway for storing motor ambulances and space for unloading sick and crippled animals; a room for the preparation of animals for operation. The entire addition is well lighted, naturally and artificially, screened and connected with the sewer by sanitary drains. This addition, with its equipment, has cost approximately \$12,000.

The Department of Veterinary Medicine has also erected during the year one large hog barn, 38 feet wide by 118 feet long, which is also constructed of wood and concrete. This barn is used for housing and feeding hogs for serum production. The floors are constructed of concrete with sanitary drains which connect with the sewer. The walls for the first three feet from the floor are constructed of concrete in order to make them sanitary. The stalls are equipped with James' sanitary pen fixtures. There is a large feed room and loft for storing car lots of feed stuffs; a small dressing room; sanitary toilets; wash room with shower bath supplied with hot and cold water for employees. This building cost \$7,000.

Another hog barn, 38 feet wide by 80 feet long for housing and feeding supply hogs, has been erected. This barn is constructed of wood and concrete at a cost of \$6,000. It has a loft for storing feed; the floors are made of reinforced concrete and are arranged for feeding waste from the mess hall and tankage in a sanitary way. They are connected with the sewer by sanitary drains.

A slaughter house, 34 feet wide by 36 feet long, constructed of wood and concrete at a cost of \$2,500, has been completed, screened and equipped with concrete floors and sanitary drains. This building is used for dressing hogs and giving demonstrations in slaughtering animals, and in meat inspection in the course of meat hygiene.

A post-mortem building, 20 feet wide by 30 feet long, has been constructed of wood and concrete, at an approximate cost of \$2,500. It is well lighted by windows and two sky-lights, in order to give the best possible lighting system. It is also equipped with electric lights for night work in emergencies. The floors are constructed of concrete with sanitary drains, which

connect with the sewer. This building enables the department to give demonstrations in post-mortem work on cadavers of animals which die in our clinic. The building is also used for post-mortem work on experimental animals and cadavers of such animals which are brought here for examination.

The second called session of the thirty-sixth Legislature appropriated \$30,000 with which to purchase additional land and erect the necessary barns and barracks for the Department of Military Science and Tactics. The College authorities, with the approval of the Board of Directors, purchased 110 acres of land and erected the following buildings with this fund:

Military barracks, 118 feet long by 38 feet wide, costing \$9,706.99.

Artillery horse barn, 28 feet wide by 32 feet long, costing \$8,407.00.

Cavalry horse barn, 32 feet long by 24 feet wide, costing \$7,764.91.

One gun shed for field artillery equipment, 131 feet long by 22 feet wide, costing \$1,605.68.

One gun shed for field artillery equipment, 129 feet long by 22 feet wide, costing \$1,430.30.

One gun shed, 40 feet long by 22 feet wide, costing \$530.05.

The above buildings are all frame structures supported by concrete piers. The military barrack houses approximately 110 men and is two stories with screened porch in front, equipped with electric lights, water and sewerage.

The artillery barn provides space for 94 horses and has concrete floors through the entire hallway. The cavalry barn provides space for 70 horses and has concrete floors through the entire hallway and in the saddle room.

Approximately 800 feet of fence has been built around the two barns. The three gun sheds are designed to provide space for approximately three batteries of field artillery. Approximately 500 feet of gravel road has been built from the railroad station to the barracks building.

In addition to these building constructions, many minor campus improvements have been made during the year. Several of the campus streets have been graveled and concrete walks have been extended. Approximately \$60,000 was expended on repairs and improvements to the dormitories just before the opening of the session in the fall of 1919. These repairs to buildings have increased the contentment and happiness of the student body during the current year.





One of the barns used by the Military Department for the 160 horses that are used for instruction in cavalry and field artillery.

## CHANGES IN POLICY.

Several changes in policy with reference to the administration and organization of the college have taken place during the current scholastic year. The following are the most important of these:

1. **Separation of the office of Commandant from that of Professor of Military Science and Tactics.** For many years it was the policy of this institution for the Professor of Military Science and Tactics to serve the college in the capacity of Commandant. In this dual capacity the Professor of Military Science and Tactics was responsible for discipline in the college. There has always been one serious objection to this arrangement. The Professor of Military Science and Tactics is an officer of the War Department and the length of his period of service has been limited by law, as well as being terminable at the will of the Adjutant General. In practice it has happened that this officer has been changed frequently. This has resulted in a continual change of policy with reference to discipline in the institution. Naturally, men who have been detailed to the college have also differed in ideals, tact, and personal interest in the institution. As a result of this situation it cannot be said that the policy of combining the two positions has been very satisfactory.

In recent years another difficulty has entered into the problem. The increase in the attendance has correspondingly increased the duties of the Commandant. With the inauguration of the Reserve Officers' Training Corps and the establishment of the four units of infantry, signal corps, field artillery and cavalry at the college, the duties of the Professor of Military Science and Tactics have also been greatly increased. In other words, the respective duties of the two positions have grown to such an extent that it has not been possible for one man to give adequate attention to the numerous details and problems growing out of two positions as unrelated as those of Professor of Military Science and Tactics and Commandant.

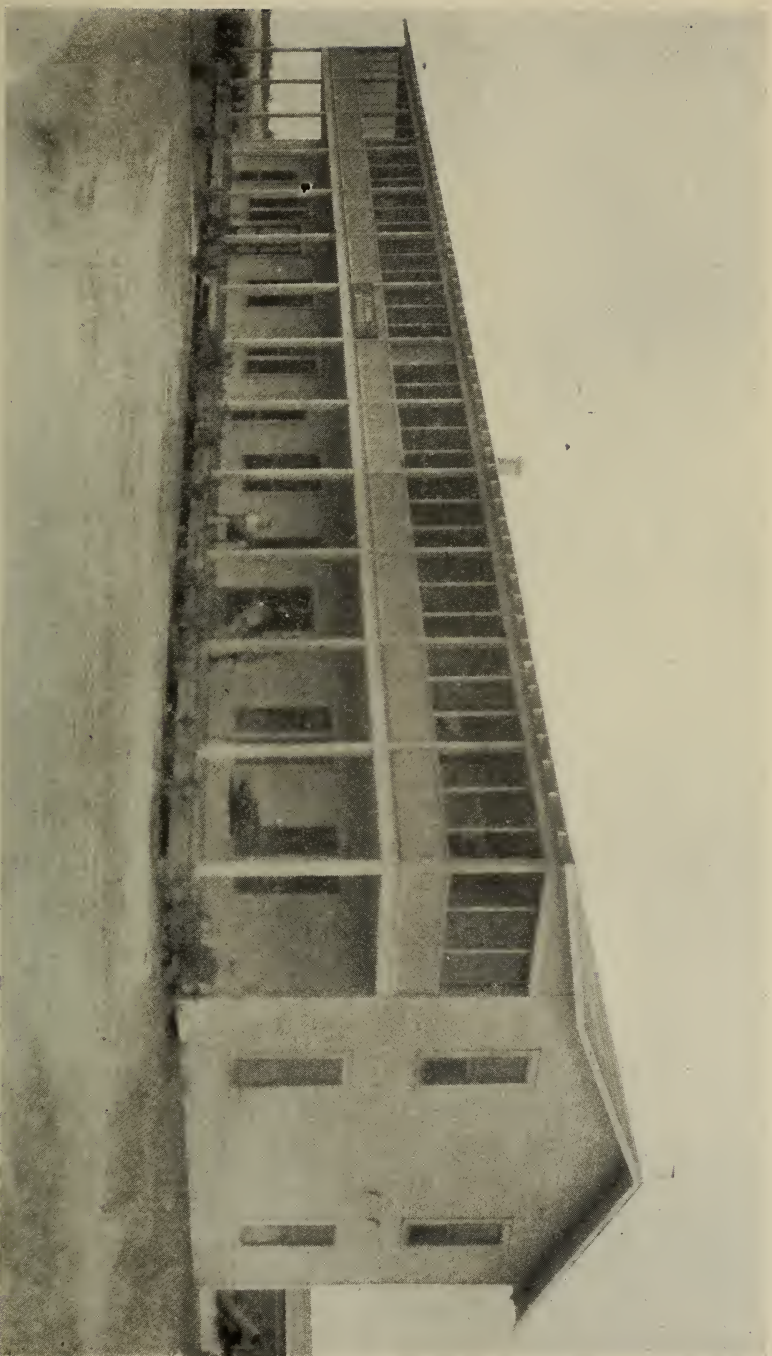
With the beginning of the current year Colonel Carl H. Muller was relieved of the duties of Commandant in order that he might devote his whole time to the organization and development of the several Reserve Officers' Training corps units at the college, and Major Ike Ashburn was appointed to the position of Commandant. After a year's experience there is no difference of opinion about the success of this arrangement. The administration of the Commandant's office under Major Ashburn has been all that could be desired. The respect and devotion of the student body to him personally, and his tact and good judgment in administering the regulations of the college with respect to discipline have been largely responsible for the contentment and happiness of the student body during the current year.



A TROOP OF CAVALRY.

There are four units in the Reserve Officers' Training Corps maintained at the college. These include a cavalry unit, a field artillery unit, a signal corps unit and an infantry unit.





Barracks used for housing army detachment detailed to the college by the War Department

2. **Military Education.** Reference has been made to the organization of the several units of the Reserve Officers' Training Corps in the college. The National Defense Act of June 3, 1916, provided for the establishment in civil educational institutions of Reserve Officers' Training Corps units. The college had just organized the first Reserve Officers' Training Corps unit when war was declared against Germany and Austria. In the fall of 1918 the Students' Army Training Corps was substituted for the Reserve Officers' Training Corps for the purpose of preparing emergency officers for military duty over seas. Immediately after the signing of the armistice on November 11, 1918, the Students' Army Training Corps organization was disbanded and the college re-established a unit of the Reserve Officers' Training Corps. With the beginning of the current year, on September 17, 1919, an infantry unit and a field artillery unit were authorized. During the fall of 1919 the signal corps unit was organized, and beginning with the second term of the current year a unit of cavalry was approved by the War Department.

At the present time the government has sent to the college approximately \$500,000 worth of equipment. The students in the advanced course are receiving a monthly commutation of approximately \$12.00, with a possibility of having this sum increased for next session. A capable staff of commissioned officers and non-commissioned officers have been detailed to the institution by the War Department. All these men are of the highest character and are rendering good service, both to the War Department and to the college.

3. **Elective System of Military Science and Tactics.** From the beginning of the college it has been the custom to require four years of military training under the general provisions of the first Morrill Act. On the recommendation of the faculty and the approval of the Board of Directors, military training was made elective beginning with the junior year. This arrangement was effective for the current year. Two reasons seemed to justify this policy. In the first place, many men returning to the college with the beginning of the session in 1919 had been through many months of rigid training and actual war experience over seas. The training and experience of these men were more than equivalent to the courses in military science and tactics in this institution. It seemed, therefore, only just that they should be given credit for the work in this department. In the second place, Section 50 of the National Defense Act provides for the selection of the senior division (junior and senior years) of Reserve Officers' Training Corps, both on the part of the officers of the institution and the students of the college. The paragraph relating to this subject reads as follows:

"Sec. 50. When any member of the senior division of the Reserve Officers' Training Corps has com-

pleted two academic years of service in that division, and has been selected for further training by the president of the institution and by its professor of military science and tactics, and has agreed in writing to continue in the Reserve Officers' Training Corps for the remainder of his course in the institution, devoting five hours per week to the military training prescribed by the Secretary of War, and has agreed in writing to pursue the courses in camp training prescribed by the Secretary of War, he may be furnished at the expense of the United States, with commutation of subsistence at such rate, not exceeding the cost of the garrison ration prescribed for the Army, as may be fixed by the Secretary of war, during the remainder of his service in the Reserve Officers' Training Corps."

The faculty of the college has accepted this policy of the War Department as the proper course to pursue in this institution. Students, therefore, have the right to elect the advanced course, and if approved by the president of the college and the professor of military science and tactics, they are permitted to enter the senior division for advanced training. It was thought by some that a relatively small number of students would probably elect the advanced course, but it has been found that practically the entire sophomore class has applied for admission to the advanced course. There seems no reason to doubt that the present plan of allowing this election will increase the interest of those who are selected for advanced training, and give those who have no interest in military education the opportunity to drop these courses and take up other courses that will be of more interest and help to them. There is every reason to believe that this policy will be a permanent feature of the institution.

This college for the tenth consecutive time has been designated "a distinguished college" by the War Department. The number of distinguished colleges is limited to twenty per cent. of the institutions maintaining units of the senior division of the R. O. T. C., which best meet the following conditions:

- (1). The curriculum of the institution must be sufficiently advanced to confer degrees.
- (2). The average age of students on graduation must not be less than 21 years.
- (3). The student body must exhibit unusual efficiency in military training.
- (4). Graduates of that year must by reason of discipline, education, and military training be qualified for commissions in the Army.



The board of examiners for the current year consisted of the following: William T. Merry, colonel of infantry, Emery T. Smith, major of field artillery, Henry T. Bull, captain of cavalry. That this board of competent inspectors, after a thorough examination and inspection of the proficiency of the work in military science and tactics in this institution, should recommend to the War Department that the institution was entitled to rank as a "distinguished" college is gratifying to the college authorities and every friend of the institution.

**4. Policy of Coordination.** The rapid expansion of the several departments and divisions of the college has created a problem of coordination and articulation that has given the authorities of the institution some concern. The rapid increase in the number of employees in the extension department, the increasing number of members of the teaching staff, and the growth of the several divisions in the research division of the college have made it difficult to prevent duplication of effort. As a means of solving this problem, the Board of Directors approved the organization of an Administrative Council in the college. This council is composed of the president, the several deans and directors. This council holds meetings from time to time for the purpose of discussing problems and policies in which the interests of two or more of the divisions of the college are involved. The meetings of the council have succeeded in keeping each department of the college in intimate touch with the work of the other departments and divisions, and assisted in coordinating the work of all departments of the institution.

**5. New Policy with Reference to Employment of Farm and Home Demonstration Agents.** The rapid expansion of the farm and home demonstration activities of the college has created a problem of securing men and women in adequate numbers who had the requisite training and experience to perform the duties associated with these activities satisfactorily. It is needless to say that it has been impossible in every case to secure the best qualified person for these positions. Naturally some dissatisfaction in this or that duty has resulted from a belief that the farm or home demonstration agent was not rendering service that was entirely satisfactory.

The Thirty-sixth Legislature took cognizance of this situation and attached the following "rider" to the college appropriation act:

"No salary provided for in the extension service administration section of this Act shall be paid to any person who has not first stood a satisfactory examination before the faculty of the A. and M. College of Texas, or a committee of not less than five, selected from said faculty by the President of A. and M. Col-

lege. Said examination shall be conducted at such times and places as shall be decided upon by the faculty or committee herein provided for."

Acting under the authority of this provision of the law, the following committee was appointed to act as an examining board for extension workers: Dr. J. O. Morgan, professor of agronomy, chairman; Professor J. W. Ridgway, professor of dairy husbandry; Professor J. C. Burns, professor of animal husbandry; Mr. W. B. Lanham, assistant director of extension service; Miss Helen M. Higgins, special agent in rural organization work; Mr. T. O. Walton, director of extension, ex-officio; Miss Laura F. Neale, state home demonstration agent, ex-officio; Mr. M. T. Payne, state agent, ex-officio.

The examinations have been held at the college and every applicant for a position in the extension service is required to pass a satisfactory examination. There is every reason to believe that this policy will result in increasing the efficiency of those employed in the extension service of the college.

**6. Change in Curricula.** To meet the needs of an increasing number of young men who are entering upon business careers dependent upon agriculture, the faculty of the college has established a course in Agricultural Administration. This course is similar to courses in business administration in academic colleges and universities. The course is intended primarily for young men who are interested in the business side of agriculture rather than in the productive side. In an agricultural state like Texas the course will prove helpful to merchants, bankers, real estate agents and others. The course emphasizes, in addition to the regular agricultural course, the subjects of accounting, marketing, general economics, statistics, money and banking, corporation finance, rural economics and rural sociology. It is believed that this course will supply a real need in this state by preparing young men for better business practice in those enterprises that relate to, or are dependent upon agriculture for success.

## INTERESTING EVENTS OF THE YEAR.

There were three events out of the ordinary that occurred at the college during the current year:

**1. Celebration of Armistice Day.** Commemorating the first anniversary of the victory of the allied armies over the armies of the central powers, a formal convocation of the faculty and students was held in Guion Hall, the college auditorium, at ten a. m., November 11, 1919. The address of the occasion was made by General W. S. Scott, commanding officer at Fort Sam Houston, and an appropriate musical program was rendered. At the close of the exercises commissions were awarded to all cadet



officers for the current year. It has been definitely decided by the college authorities to award commissions to cadet officers annually at the convocation exercises commemorating Armistice Day.

**2. Memorial Tree Planting Exercises.** At the suggestion of Honorable L. J. Hart, president of the Board of Directors, the Board authorized the college authorities to plant a tree commemorating the heroic death of each student of the college who lost his life in the great war. These exercises were held on March 2nd, 1920. The address at the formal exercises preceding the actual planting of the trees was made by Mr. L. J. Hart from the steps of Guion Hall and in the presence of the assembled faculty and student body, bereaved parents and other friends of the college.

**3. The Farmer-Banker Conference.** An event of unusual interest and importance to the college and to the state was the first banker-farmer conference that was held at the college on April 20 and 21, 1920. The suggestion for this conference came from Colonel P. L. Downs, Chairman of the Agricultural Committee, and Mr. F. M. Law, vice-president of the First National Bank of Houston, and president of the Texas Bankers' Association. This was the first conference of its kind ever held in Texas and the third that has been held in the United States. The object was to bring the bankers and farmers into closer contact with reference to the credit needs of agriculture in Texas. It was doubtful at the time what success would attend this meeting, but to the surprise of even those who were most enthusiastic, approximately one hundred bankers and six hundred farmers came to the college and participated in the program and conference.

At the close of the conference it was unanimously decided to recommend to the Texas Bankers' Association that this conference be made an annual affair, and that the meeting be held at College Station. By a unanimous vote of the Texas Bankers' Association at their annual convention in Galveston on June 7, favorable action was taken on this recommendation.

## DEATH OF BOARD MEMBERS.

Honorable A. B. Davidson, vice-president of the Board of Directors, died at his home in Cuero on February 4, 1920. Governor Davidson had been a member of the Board of Directors for several years and he was greatly interested in the work of the college. He rarely missed a meeting of the Board, and during the period of his official connection with the institution he rendered great service by virtue of his good judgment in counsel and wide experience and knowledge of business affairs. The Board of Directors, at a meeting held at College Station on February 23, 1920, passed appropriate resolutions of respect because of the death



Board of Directors planting a memorial tree to Governor A. B. Davidson on the day that memorial trees were planted honoring the memory of former students of the college who lost their lives in the Great war

of this valuable member of the Board. A memorial tree was planted by the Board at the same time that trees were planted memorializing the sons of the college who lost their lives during the great war.

Colonel J. Sheb Williams of Paris, a former member of the Board, also died during the current year. Colonel Williams was appointed on the Board in 1913 and served until 1917. The college had no better friend than Colonel Williams, and his death brought keen regret to his former associates on the Board, and to the officers of the college.

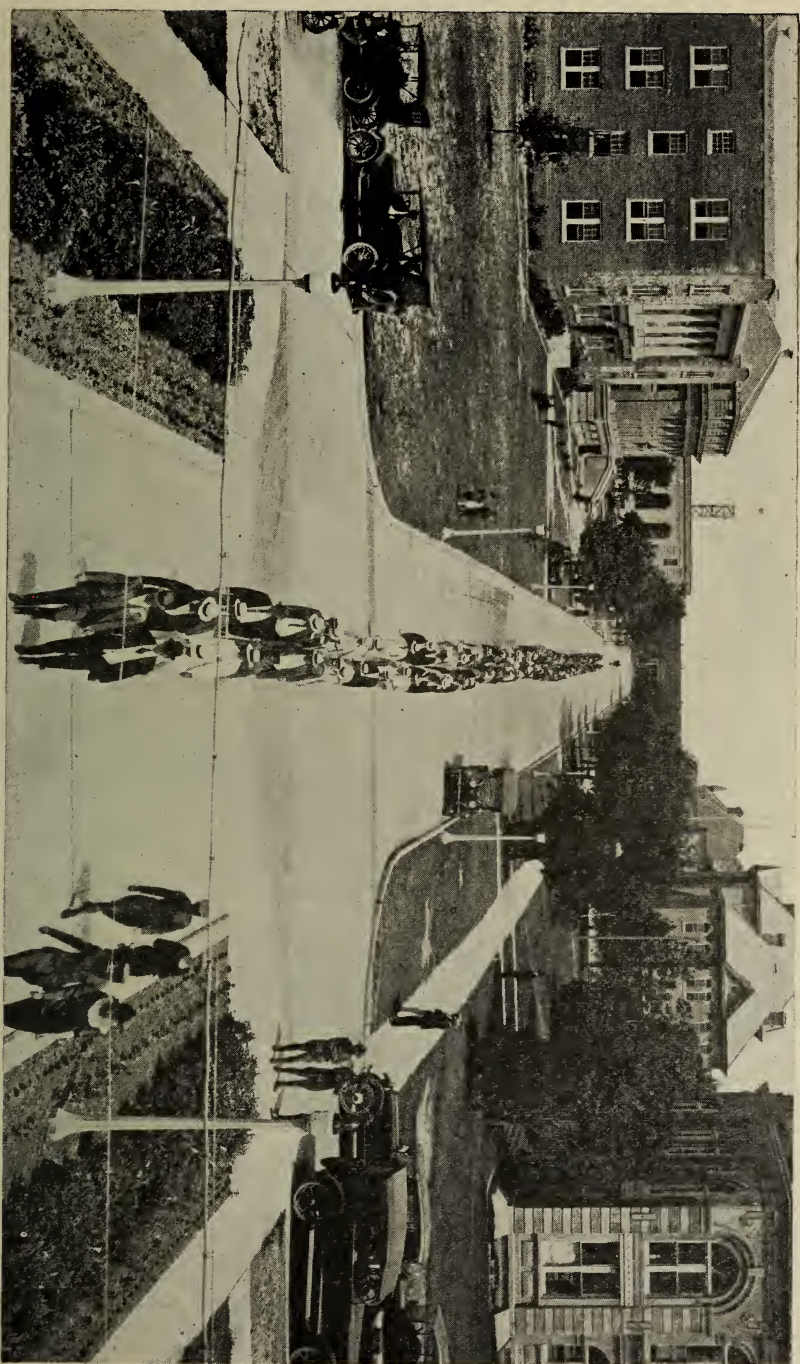
## FINANCIAL PROBLEMS.

It has been very difficult to finance the operations of the college during the current year. The reasons are quite obvious. The budget on which the available appropriations were based was prepared in November 1918. It could not be foreseen at that time that there would be an abnormal increase in the price of material and supplies. Labor cost has also exceeded expectations, but it has been the policy of the college authorities to adjust the financial obligations of the college so as to keep the expenditures within the available appropriations.

The greatest difficulty has come with reference to adjusting salaries to the change in the economic conditions of supply and demand. The fact that this institution employs many men of technical training in agriculture and engineering has complicated this problem. There has been an unusual demand for the services of technical men in agriculture, commerce, industry and transportation. The available salaries in the college have not been adequate to meet this kind of competition. The number of resignations as presented in the preceding part of this report shows the number of losses the college has sustained during the year. Many of the men who have left the college were numbered among the strongest members of the teaching staff. Some of them had been connected with the college for many years. It will be impossible to fill some of these positions with men of equal training and experience.

The acuteness of this situation, however, has been partially relieved by an emergency appropriation of a called session of the legislature that convened on the 20th of May, 1920. The legislature appropriated \$80,400 for increases in salaries and for additional teachers for 1920-21. This enabled the Board of Directors to readjust the salaries of a number of men and women now in the service of the college. Without this financial aid it would have been almost impossible for the institution to have carried on its work for the next scholastic year.





Faculty Processional during Commencement Exercises.

## CLOSE OF THE REGULAR SESSION.

The forty-third annual commencement exercises for the current year began on June 21 and ended on Tuesday, June 24. The commencement sermon was preached on Sunday, June 22, by Rev. H. A. Boaz, D. D., president of Southern Methodist University, Dallas, Texas. The address to the religious organizations of the college was delivered on Sunday evening of that date by Colonel George Bailey, editor of the Houston Post. The commencement address, on Tuesday, June 24, was delivered by Mr. Edwin Markham, the poet, of New York City. Following the baccalaureate address, President W. B. Bizzell presented the diplomas to the following:

| Name.                  | Address.  |
|------------------------|---|
| Adkisson, A. S.....    | 123 Bell Ave., Denton, Texas.                   |
| Alex, A. H. ....       | Yorktown, Texas.                                |
| Alexander, S., Jr..... | 402 S. Lindsey, Gainesville, Texas.             |
| Allen, H. M., Jr.....  | McGregor, Texas.                                |
| Ballard, A. L. ....    | Bryan, Texas.                                   |
| Barber, I. W. ....     | Strawn, Texas.                                  |
| Becker, P. G.....      | 929 Hemphill, Fort Worth, Texas.                |
| Bernheim, A. G.....    | 1601 23rd St., Galveston, Texas.                |
| Bittle, G. M. ....     | Bryan, Texas.                                   |
| Blumberg, R. D.....    | Seguin, Texas.                                  |
| Bohn, H. M.....        | 1409 West St., Austin, Texas.                   |
| Boulden, C. F.....     | Columbus, Texas.                                |
| Bowles, C. E.....      | Dept. Vocational Teaching, Phoenix,<br>Arizona. |
| Brunnemann, F. C.....  | Flatonia, Texas.                                |
| Burkes, W. M.....      | Reagan, Texas.                                  |
| Burnett, H. A.....     | 1911 Matamora, Laredo, Texas.                   |
| Burns, W. T. ....      | 3802 Yoakum St., Houston, Texas.                |
| Carr, V. C.....        | Stockdale, Texas.                               |
| Carter, C. E.....      | Mexia, Texas.                                   |
| Castillo, C. A.....    | Ave. San Francisco 72, Mexico City.             |
| Chappelle, H. L.....   | College Station, Texas.                         |
| Cheeves, T. A.....     | 649 Capps St., Marlin, Texas.                   |
| Colvin, C. H.....      | Duffan, Texas.                                  |
| Cook, L. E.....        | Jasper, Texas.                                  |
| Crook, G. M.....       | Bryan, Texas.                                   |
| Cox, W. H.....         | Haskell, Texas.                                 |
| Crook, W. H.....       | 145 S. Webb, Paris, Texas.                      |
| Davis, J. Thomas.....  | Stephenville, Texas.                            |
| Davidson, Green A..... | Caldwell, Texas.                                |
| Denison, J. S.....     | Temple, Texas.                                  |
| Derrick, W. W.....     | Thorp Springs, Texas.                           |
| Edwards, A. I.....     | Coleman, Texas.                                 |
| Edwards, K. J.....     | 18 N. Taylor St., Gainesville, Texas.           |
| Fahey, M. J.....       | Navasota, Texas.                                |
| Fowler, W. H.....      | Oakhurst, Texas.                                |
| Frazier, A. C.....     | Conroe, Texas.                                  |
| Frazier, B. H.....     | San Benito, Texas.                              |
| Glezen, H. N.....      | Gladewater, Texas.                              |
| Graham, R. G.....      | Floresville, Texas.                             |
| Granau, E. L.....      | Bellville, Texas.                               |
| Hamilton, M. A.....    | 502 Gaston Ave, Tyler, Texas.                   |



| Name.                    | Address.                                     |
|--------------------------|--|
| Harkrider, W. B.....     | 717 Hemphill St., Ft. Worth, Texas.          |
| Harris, R. A.....        | 708 W. Burleson St., Bryan, Texas.           |
| Harrison, R. H.....      | Bryan, Texas.                                |
| Heard, C. E.....         | Stoneham, Texas.                             |
| Holik, W. V.....         | Chriesman, Texas.                            |
| Horger, J. C.....        | Hondo, Texas.                                |
| Hudson, H. S.....        | Pearsall, Texas.                             |
| Hull, J. N.....          | Carthage, Texas.                             |
| Johnson, J. M.....       | Centerville, Texas.                          |
| Jonas, H. F.....         | 1408 Lamar St., Houston, Texas.              |
| Jungman, A. H.....       | Hondo, Texas.                                |
| Kennard, H. J.....       | Gonzales, Texas.                             |
| Kubena, J. J.....        | Fayetteville, Texas.                         |
| Landon, R. M.....        | Kaufman, Texas.                              |
| Lattimore, R. B.....     | 2277 Lipscomb St. Ft. Worth, Texas.          |
| Lebo, M. B.....          | Waynesville, Pa.                             |
| Leidolf, E. J.....       | Weimar, Texas.                               |
| Leon, M. ....            | Misericordia 7, Mexico City.                 |
| Long, L. F.....          | 1827 Ave. J, Galveston, Texas.               |
| McManus, D. S.....       | Thomason, Texas.                             |
| McNew, J. T. L.....      | Mineral Wells, Texas.                        |
| McQuillen, E. E.....     | 1419 24th St., Galveston, Texas.             |
| Manning, L. R.....       | Calvert, Texas.                              |
| Martin, E. C.....        | Bryan, Texas.                                |
| Moore, D. S.....         | Lampasas, Texas.                             |
| Murray, F. A.....        | College Station, Texas.                      |
| Neyland, A. J.....       | Goliad, Texas.                               |
| Nichols, C. ....         | Luling, Texas.                               |
| Nussbaum, C. A.....      | Mexia, Texas.                                |
| Oliver, H. ....          | Lampasas, Texas.                             |
| Peteet, G. W.....        | Bryan, Texas.                                |
| Potthast, E. B.....      | Weimar, Texas.                               |
| Powers, Geo. L.....      | Edinburg, Texas.                             |
| Price, P. B.....         | 509 E. Market St. Honey Grove, Texas         |
| Randall, A. L.....       | Hereford, Texas.                             |
| Rasmussen, A. A.....     | Port O'Conner, Texas.                        |
| Von Rosenberg, H. O..... | Hallettsville, Texas.                        |
| Shuhart, D. V.....       | 2318 Beuna Vista St., San Antonio,<br>Texas. |
| Singleton, D. A.....     | Lufkin, Texas.                               |
| Smith, A. B.....         | Rotan, Texas.                                |
| So Relle, I. F.....      | Clarendon, Texas.                            |
| Stevens, D. L. ....      | Mexia, Texas.                                |
| Stevenson, D. A.....     | 2219 Ave. P., Galveston, Texas.              |
| Sumner, L. E.....        | Blanket, Texas.                              |
| Taylor, E. ....          | Mt. Vernon, Texas.                           |
| Thrasher, W. B.....      | 1206 West Ave., Austin, Texas.               |
| Todd, C. C.....          | 1812 Main Ave., San Antonio, Texas.          |
| Westcourt, F. W.....     | Moulten, Texas.                              |
| Weisen, T. F.....        | 907 Bessit St., Fort Worth, Texas.           |
| Wilson, E. S.....        | Denton, Texas.                               |
| Witmer, B. F.....        | Mercedes, Texas.                             |
| Zegarra, E. C.....       | Lima, Peru, Box 454.                         |

The following were given certificates for the completion of the two-year courses:

Albritton, J. A. .... Kerens, Texas.  
Allen, H. D..... El Campo, Texas.

| Name.                   | Address.               |
|-------------------------|------------------------|
| Andrews, E. C.....      | Bryan, Texas.          |
| Ball, E. R. ....        | Lillian, Texas.        |
| Barlow, H. S.....       | Kerens, Texas.         |
| Barry, W. W. ....       | Navasota, Texas.       |
| Brewer, C. L.....       | Gainesville, Texas.    |
| Bullen, T. K.....       | Houston, Texas.        |
| Fischer, R. M.....      | Fresno, Texas.         |
| Glass, F. S.....        | Dallas, Texas.         |
| Graham, R. J. ....      | Anarene, Texas.        |
| Hall, H. L.....         | Warren, Arizona.       |
| Herring, L. M.....      | Lometa, Texas.         |
| Hill, J. W.....         | Corpus Christi, Texas. |
| Hoefle, H. O.....       | Velasco, Texas.        |
| Karrer, W. H.....       | Hondo, Texas.          |
| Kuempel, M. F.....      | Corpus Christi, Texas. |
| Landers, R. Q.....      | Pflugerville, Texas.   |
| Ledbetter, A. ....      | Brady, Texas.          |
| Logan, R. M.....        | Fort Worth, Texas.     |
| McSwain, G. C.....      | Wellborn, Texas.       |
| Mitchell, T. E.....     | Grapeland, Texas.      |
| Naeter, E.....          | New Baden, Texas.      |
| Murphy, R. A.....       | Gainesville, Texas.    |
| Parker, N. R.....       | Eagle Lake, Texas.     |
| Peter, R. A.....        | Yoakum, Texas.         |
| Powell, P. T.....       | Mineola, Texas.        |
| Robinson, B. B.....     | Galveston, Texas.      |
| Rosenborough, J. F..... | Marshall, Texas.       |
| Salazar, C. ....        | Mexico City, Mexico.   |
| Sample, C. M.....       | Stamford, Texas.       |
| Schiller, M. F.....     | Sealy, Texas.          |
| Smith, L. R.....        | Schulenberg, Texas.    |
| Steigler, F. G.....     | Hondo, Texas.          |
| Swayze, J. P.....       | Center Point, Texas.   |
| Trousdale, J. W.....    | El Campo, Texas.       |
| Turner, G. W.....       | Dalhart, Texas.        |
| Walters, J. T.....      | San Saba, Texas.       |
| Williams, T. V.....     | Odem, Texas.           |

The following seniors were distinguished students during the past session:

|                 |                  |
|-----------------|------------------|
| Edwards, K. J.  | McQuillen, E. E. |
| Frazier, B. H.  | Neyland, A. J.   |
| Hamilton, M. A. | Randall, A. L.   |
| Kennard, H. J.  | Shuhart, D. V.   |
| McNew, J. T. L. | Westcourt. F. W. |

## AUDITOR'S REPORT.

The following is a summarized statement of the essential features of the auditor's report made by J. Austin Smith & Company:

September 30, 1920.

To the Board of Directors,  
Agricultural and Mechanical College,  
College Station, Texas.  
Gentlemen:—

Pursuant to request received, we have audited the accounts of the AGRICULTURAL AND MECHANICAL COLLEGE, COLLEGE STATION, TEXAS, for the year ended August 31st, 1920, and submit herewith our report covering the work done, together with the statements indicated in the index on the preceding page.

As Exhibit B, we give a statement which shows in detail an analysis of the budget ledger accounts, of which the following is a summary:

|                                 |               |
|---------------------------------|---------------|
| Balance August 31st, 1919.....  | \$ 264,661.42 |
| Appropriations by State .....   | 813,565.00    |
| Other Income, as detailed ..... | 1,412,557.62  |
|                                 | <hr/>         |
|                                 | 2,490,784.04  |
| Less Expenditures .....         | 2,250,941.12  |
|                                 | <hr/>         |
| Balance August 21st, 1920.....  | \$ 239,842.92 |
|                                 | <hr/>         |

All cancelled checks for the year under review, in support of the disbursements set forth in Exhibit B, were submitted to us for our examination and all were found in order with exception of those indicated in Schedule 5 hereof.

Exhaustive tests were made of all vouchers and paid bills on file in support of the cancelled checks and no exceptions were noted.

Exhaustive tests of the cash receipts were made, which satisfied us that same had been properly accounted for. As Schedule 1 of this report, we give a statement which shows the source of the cash receipts reconciled with their disposition.

**Experiment Station.** The operations of the Experiment Station Pure Feed Account are reflected fully in Schedule 3 of this report, from which it will be observed there was a deficit of \$5,687.69. The reconciliation of this amount with the amount shown by the Fiscal Department is included as a part of the above mentioned schedule.

A thorough test of the support for all expenditures, as well as the origin of receipts, was made with respect to the Experiment Station Accounts.

**Comments:** In our opinion, the system employed in the Fiscal Department of the Agricultural and Mechanical College at College Station, is a very good one; the internal check is excellent and the accounts are being kept in a first-class manner and those who have charge of them deserve credit for the splendid condition in which these accounts are kept. We would suggest that a system similar to this be adopted for the three branch colleges in order that a uniform accounting system may be maintained at all the colleges.

In conclusion we wish to express our appreciation of the facilities placed at our disposal and for the assistance rendered our representatives during the course of the audit by the officials and employees of the college.

Any additional information will be cheerfully furnished upon request.

Faithfully yours,

J. AUSTIN SMITH & CO.

## ASSETS.

### CASH ON HAND:

|                                 |    |           |              |
|---------------------------------|----|-----------|--------------|
| General Cashier .....           | \$ | 5,108.46  |              |
| Feed Control Working Fund ..... |    | 10,000.00 |              |
| Hog Cholera Working Fund .....  |    | 500.00    |              |
| Subsistence Department .....    |    | 715.68    | \$ 16,324.14 |

### IN BANKS

|  |           |            |
|--|-----------|------------|
| First National Bank, 1918-1919, Smith-Lever .....  | .05       |            |
| First National Bank, 1919-1920, Smith-Lever, ..... | 2,257.30  |            |
| First National Bank, 1920-1921, Smith-Lever .....  | 67,143.98 |            |
| City National Bank, Local Fund .....               | 3,042.59  |            |
| City National Bank, Special Building Fund .....    | 8,912.80  |            |
| City National Bank, Pure Feed Account... ..        | 9,019.54  |            |
| First State Bank & Trust Co. Local Fund. ....      | 426.54    |            |
| First State Bank, Morrill Fund .....               | 3,512.11  |            |
| First State Bank, Federal Extension.....           | 25,529.09 | 119,844.00 |

|                               |           |               |
|-------------------------------|-----------|---------------|
| IN HANDS OF COMPTROLLER ..... | 74,187.90 |               |
|                               |           | \$ 210,356.04 |

### NOTES RECEIVABLE:

|                                |          |
|--------------------------------|----------|
| From Students and Others ..... | 1,342.11 |
|--------------------------------|----------|

### ACCOUNTS RECEIVABLE:

|                           |           |           |
|---------------------------|-----------|-----------|
| From Customers .....      | 10,245.28 |           |
| From Exchange Store ..... | 1,795.10  | 12,040.38 |

### INVESTMENTS:

|  |            |            |
|--|------------|------------|
| Endowments held by State Treasurer ..... | 209,000.00 |            |
| Class of 1919 Donations .....            | 120.14     | 209,120.14 |

### OTHER ASSETS:

|   |           |           |
|---|-----------|-----------|
| Morrill Fund Borrowed by Local Fund ....    | 34,000.00 |           |
| Pure Feed Fund Borrowed by Local Fund. .... | 25,000.00 | 59,000.00 |

### FIXED ASSETS:

|                                  |              |                |
|----------------------------------|--------------|----------------|
| Land .....                       | 160,748.68   |                |
| Buildings .....                  | 2,098,929.97 |                |
| Sundry Physical Properties ..... | 754,766.21   |                |
| Consumable Supplies .....        | 101,320.61   | 3,115,765.47   |
|                                  |              | \$3,307,624.74 |

The fixed assets of the college were increased during the current year by \$147,917.81.\*

|   |          |
|---|----------|
| City National Bank, Special Building Fund ... | 8,912.80 |
|---|----------|

\*It will be interesting to observe by way of comparison that the fixed assets were increased during the preceding year (1918-19) by \$375,261.47. Two reasons explain the reduction in expenditures for permanent improvement during the current year. (1) In the first place, the available revenues for permanent improvements are less for the current year than for the preceding and (2) in the second place, the high cost of labor and material has made it necessary to curtail expenses for permanent improvements pending more stabilized conditions.



## LIABILITIES.

### ACCOUNTS PAYABLE:

|  |          |        |            |
|--|----------|--------|------------|
| To Contractors .....                       |          | \$     | 13,682.85  |
| Key Deposits .....                         |          |        | 51.00      |
| Summer School Trust Fund .....             | 2,209.08 |        |            |
| Less: General Breakage and<br>Damage ..... | \$ 25.84 |        |            |
| Debit Balances                             |          |        |            |
| Regular Trust Fund.....                    | 137.26   | 163.10 | 2,045.98   |
| Students' Private Deposits .....           |          |        | 9,265.75   |
| Departmental Balances .....                |          |        | 239,842.92 |
| Overdraft First National Bank .....        |          |        | 62,420.84  |
|  |          |        | <hr/>      |
|  |          |        | 327,309.34 |

### OTHER LIABILITIES:

|  |           |  |           |
|--|-----------|--|-----------|
| Local Funds in Account with Morrill Fund               | 34,000.00 |  |           |
| Local Funds in Account with Pure Feed<br>Account ..... | 25,000.00 |  | 59,000.00 |
|  |           |  | <hr/>     |

### NOMINAL LIABILITIES:

|                                 |              |           |                |
|---------------------------------|--------------|-----------|----------------|
| Pure Feed Surplus .....         | 44,019.54    |           |                |
| Reserve for Bad Debts .....     | 2,025.17     |           |                |
| Free Surplus:                   |              |           |                |
| Bal. Aug. 31, 1919 .....        | \$43,386.72  |           |                |
| Net Increase (per detail) ..... | 16,118.50    | 59,505.22 |                |
| Invested Surplus .....          | 3,115,765.47 |           | \$3,221,315.40 |
|                                 |              |           | <hr/>          |
|                                 |              |           | \$3,607,624.74 |

# CONDENSED ANALYSIS OF CASH RECEIPTS AND DISBURSEMENTS FOR THE YEAR ENDED AUGUST 31, 1920.

## RECEIPTS:

|                                  |             |
|----------------------------------|-------------|
| Cash on Hand Aug. 31, 1919 ..... | \$ 4,833.02 |
| From State Treasurer .....       | 624,794.97  |
| Notes Receivable .....           | 52,000.85   |
| Cashier's Account .....          | 333,853.22  |
| Student Fees .....               | 386,142.18  |
| Meal Tickets .....               | 9,399.34    |
| Summer School .....              | 37,802.79   |
| Students' Private Deposits ..... | 450,711.06  |

## WITHDRAWALS FROM BANKS:

|   |               |            |
|---|---------------|------------|
| First National Bank, Local Funds .....  | \$ 177,312.03 |            |
| City National Bank, Local Funds .....   | 102,045.14    |            |
| First State Bank & Trust Co. Local..... | 155,408.20    | 434,765.37 |

## TRANSFERS FROM:

|  |            |            |
|--|------------|------------|
| First State Bank & Trust Co., Morrill Fund ..... | 6,991.31   |            |
| Pure Feed Control .....                          | 51,000.00  |            |
| Other Funds .....                                | 143,924.16 | 201,915.47 |
| Local Receipts .....                             |            | 240,130.03 |
| Sundry Receipts .....                            |            | 435,059.58 |

|                      |                |
|----------------------|----------------|
| TOTAL RECEIPTS ..... | \$3,211,407.88 |
|----------------------|----------------|

## DISBURSEMENTS:

|   |               |                |
|---|---------------|----------------|
| Deposits in:                              |               |                |
| First National Bank .....                 | \$ 611,801.63 |                |
| City National Bank .....                  | 557,791.68    |                |
| First State Bank & Trust Co. ....         | 615,635.03    |                |
| Cashier's Account .....                   | 333,853.22    |                |
| Pure Feed Account .....                   | 131,616.13    | \$2,250,697.69 |
| Students' Withdrawals .....               |               | 448,041.96     |
| Notes Receivable .....                    |               | 52,469.58      |
| Sundry Disbursements .....                |               | 455,090.19     |
| Balance Cash on Hand, August 31, 1920.... |               | 5,108.46       |
| TOTAL DISBURSEMENTS .....                 |               | \$3,211,407.88 |

(NOTE A): Total Receipts and Total Disbursements, it will be observed, include Cash on Hand at beginning and ending of the period.

# BALANCE SHEET—EXCHANGE STORE.\*

AS AT MAY 31, 1920.

## ASSETS.

### CASH:

|               |    |          |             |
|---------------|----|----------|-------------|
| On Hand ..... | \$ | 310.68   |             |
| In Bank ..... |    | 1,090.25 | \$ 1,400.93 |
|               |    | <hr/>    |             |

### ACCOUNTS RECEIVABLE:

|                 |          |           |
|-----------------|----------|-----------|
| Customers ..... | 8,140.18 |           |
| Others .....    | 9,589.57 | 17,729.75 |
|                 | <hr/>    |           |

### MERCHANDISE:

|                 |           |
|-----------------|-----------|
| Inventory ..... | 22,324.53 |
|-----------------|-----------|

### FIXED ASSETS:

|                              |              |
|------------------------------|--------------|
| Furniture and Fixtures ..... | 1,100.58     |
|                              | <hr/>        |
|                              | \$ 42,555.79 |
|                              | <hr/>        |

## LIABILITIES.

|                     |              |
|---------------------|--------------|
| NOTES PAYABLE ..... | \$ 19,396.00 |
|---------------------|--------------|

### ACCOUNTS PAYABLE ...

|                         |             |          |
|-------------------------|-------------|----------|
| For Merchandise .....   | \$ 5,416.88 |          |
| Fiscal Department ..... | 1,795.10    | 7,211.98 |
|                         | <hr/>       |          |

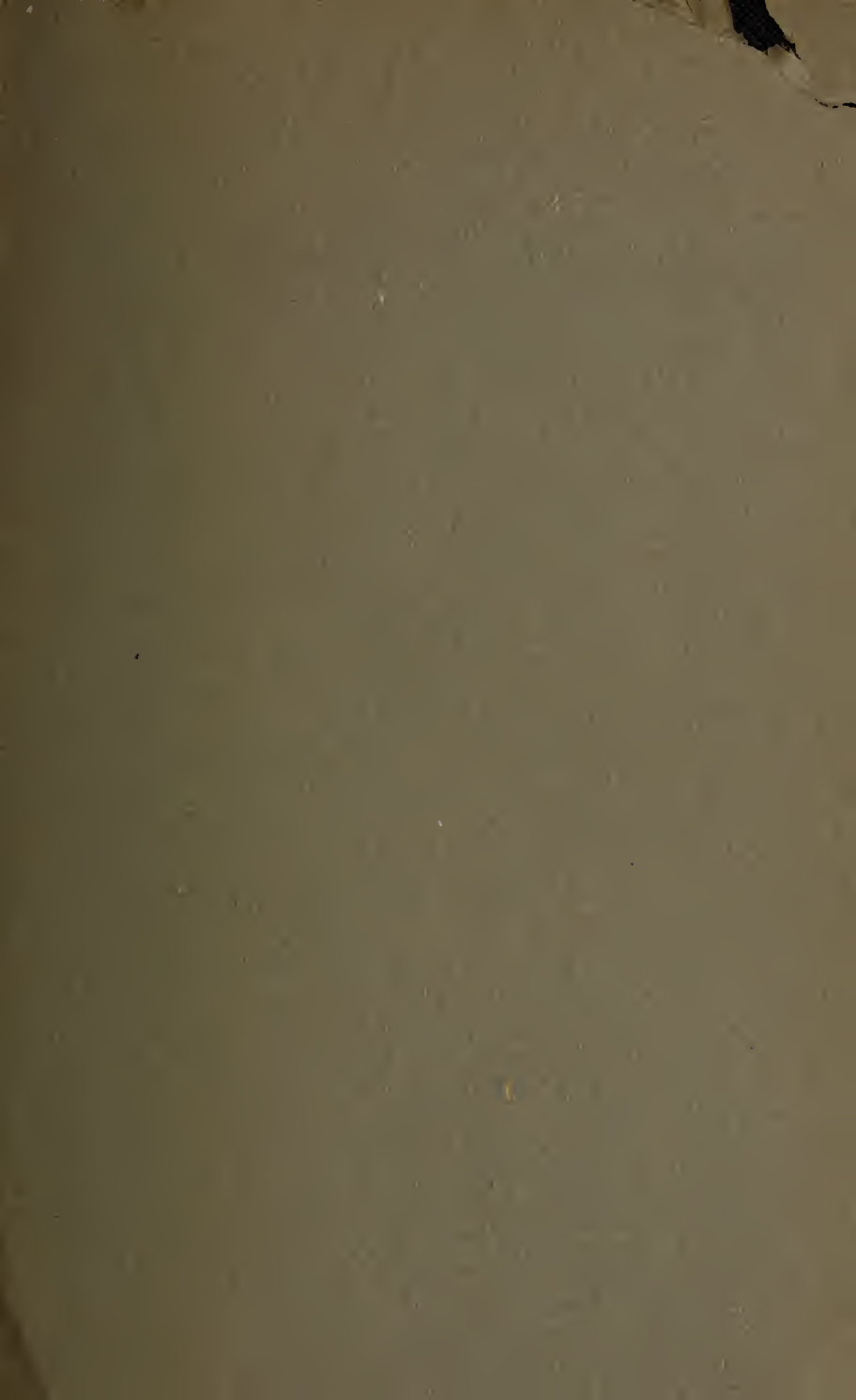
### NOMINAL:

|                               |              |           |
|-------------------------------|--------------|-----------|
| Net Worth, May 31, 1919 ..... | 12,268.81    |           |
| Profit for Year .....         | 3,679.00     | 15,947.81 |
|                               | <hr/>        |           |
|                               | \$ 42,555.79 |           |
|                               | <hr/>        |           |

\*The Exchange Store is a commercial enterprise operated by the college for the convenience of students. All articles are sold under direct supervision of the college authorities and, as a rule, at a reduced price. The store is entirely self-supporting and salaries for the management and clerical hire are defrayed out of the proceeds of the business.









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